















THIRTY-FOURTH ANNUAL REPORT  
OF THE  
*New York Zoological Society*



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American wapiti; American Elk, *Cervus canadensis*. Two adult males and a two and three year old example in early August when the new antlers have practically completed their growth.

1895

1929

CITY OF NEW YORK

# New York Zoological Society

Founded in 1895 for the establishment of the Zoological Park; conservation of the animal life of the world--fishes, mammals, birds, promotion of zoology through exploration and publication; and, in 1900, the direction of the New York Aquarium in Battery Park



## THIRTY - FOURTH ANNUAL REPORT

Address, *Director*, W. Reid Blair, Zoological Park, 185th Street and Southern Boulevard; *Director*, Charles H. Townsend, Aquarium Battery Park; *Secretary*, William White Niles, 101 Park Avenue.

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### *The Zoological Park*

OFFICERS OF THE ZOOLOGICAL PARK	THE SHOEBILL; ADULT BALD EAGLE
RECIPIENTS OF THIRTY-YEAR MEDAL	PAIR OF RHEAS
INFANT GORILLA	MALE NORTH AFRICAN OSTRICH
MULE DEER	PEACOCK DISPLAY
WHITE-FRONTED MUSK OX	SHOEBILL
SIAMESE SAMBAR DEER	MUTE SWAN; PELICANS
HARTMANN MOUNTAIN ZEBRA AND COLT	BIRD OF PARADISE; BOWER BIRD
THE PRAYING MANTIS	COUNT RAGGI'S BIRD OF PARADISE
AMERICAN WILDCAT	PRINCE RUDOLPH'S BIRD OF PARADISE
SPOTTED CAVY	FLORIDA CROCODILE
MALE EMU AND FLOCK	IGUANA

### TARANTULAS

### *The New York Aquarium*

HEAD OF WHALE	FLOATING FACTORY "LANSING"
FEEDING GREEN MORAYS	HUNTING BOAT
APPARATUS FOR SEA WATER	WHALING GUN

### ELEPHANT SEALS

### *Department of Tropical Research*

NONSUCH LABORATORY	GIANT GLOBE-LIKE CRUSTACEAN
TUG "GLADISFEN"	SCHOOL OF LUMINOUS CYCLOTHONES
<i>Astronesthes</i>	GIANT-HEADED BLACK ANGLER
TWO DEEP-SEA DRAGONS	SEA ANEMONES
DEEP-SEA CRUSTACEAN	FLYING FISH; CRAB



# New York Zoological Society

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## Membership

*Membership.*—Membership in the Zoological Society is open to all who are interested in the objects of the organization and desire to contribute toward its support.

*Classes.*—Annual Membership is \$10. This entitles the holder to admission to the Zoological Park on pay days, when the collections may be seen to the best advantage, all publications of the Society, privileges of the Administration Building, lectures, special exhibitions, and ten complimentary tickets to the Zoological Park for distribution.

Annual Members may become Life Members by the payment of \$200; a subscriber of \$1,000 becomes a Patron; \$2,500, an Associate Founder; \$5,000, Founder; \$10,000, a Founder in Perpetuity, and \$25,000 a Benefactor.

Applications for Membership should be sent to William White Niles, Secretary, N. Y. Zoological Society, 101 Park Avenue, New York, N. Y.

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## Form of Bequest

*I do hereby give and bequeath to the "NEW YORK ZOOLOGICAL SOCIETY," of the City of New York,*.....

.....

.....

Address, CORNELIUS R. AGNEW, *Treasurer*  
43 Exchange Place, New York, N. Y.



# New York Zoological Society

Organized 1895

## Presidents

I. ANDREW H. GREEN.....	1895 to 1897
II. LEVI P. MORTON.....	1897 to 1909
III. HENRY FAIRFIELD OSBORN.....	1909 to 1925
IV. MADISON GRANT.....	1925

## First Vice-Presidents

I. J. HAMPTON ROBB.....	1895 to 1897
II. HENRY FAIRFIELD OSBORN.....	1897 to 1909
III. SAMUEL THORNE.....	1909 to 1916
IV. MADISON GRANT.....	1916 to 1925
V. FRANK K. STURGIS.....	1925

## Second Vice-Presidents

I. CHARLES H. WHITEHEAD.....	1895 to 1902
II. JOHN L. CADWALADER.....	1902 to 1915
III. MADISON GRANT.....	1915 to 1916
IV. FRANK K. STURGIS.....	1916 to 1925
V. HENRY D. WHITON.....	1925

## Treasurers

I. L. V. F. RANDOLPH.....	1895 to 1901
II. CHARLES T. BARNEY.....	1901 to 1903
III. PERCY RIVINGTON PYNE.....	1903 to 1922
IV. CORNELIUS R. AGNEW.....	1922

## Secretaries

I. MADISON GRANT.....	1895 to 1925
II. WILLIAM WHITE NILES.....	1925

## Chairmen, Executive Committee

I. CHARLES E. WHITEHEAD.....	1895 to 1896
II. HENRY FAIRFIELD OSBORN.....	1896 to 1903
III. CHARLES T. BARNEY.....	1903 to 1908
IV. HENRY FAIRFIELD OSBORN.....	1908 to 1909
V. MADISON GRANT.....	1909

## Directors

I. WILLIAM T. HORNADAY, <i>Zoological Park</i> .....	1896 to 1926
II. CHARLES H. TOWNSEND, <i>New York Aquarium</i> .....	1902
III. W. REID BLAIR, <i>Zoological Park</i> .....	1926





# Board of Managers

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*Ex-Officio*                    } HON. JAMES J. WALKER, *The Mayor.*  
*City New York*        } HON. WALTER H. HERRICK, *The President, Dept. of Parks.*

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## *Class of 1931*

GEORGE BIRD GRINNELL	GEORGE GORDON BATTLE
MORTIMER L. SCHIFF	BAYARD DOMINICK
FREDERIC C. WALCOTT	ANSON W. HARD
GEORGE C. CLARK	ROBERT GORDON MCKAY
W. REDMOND CROSS	KERMIT ROOSEVELT
HENRY FAIRFIELD OSBORN, JR.	GRAFTON H. PYNE

## *Class of 1932*

HENRY FAIRFIELD OSBORN	HARRY PAYNE BINGHAM
GEORGE F. BAKER	LANDON K. THORNE
ROBERT S. BREWSTER	J. WATSON WEBB
EDWARD S. HARKNESS	OLIVER D. FILLEY
EDWIN THORNE	DE FOREST GRANT
IRVING K. TAYLOR	H. DE B. PARSONS

## *Class of 1933*

MADISON GRANT	T. COLEMAN DU PONT
WILLIAM WHITE NILES	HENRY D. WHITON
FRANK K. STURGIS	CORNELIUS R. AGNEW
LEWIS RUTHERFURD MORRIS	HARRISON WILLIAMS
ARCHER M. HUNTINGTON	MARSHALL FIELD
GEORGE D. PRATT	OGDEN L. MILLS

# Officers of the Society

General Offices, 101 Park Avenue, New York, N. Y.

---

*President:* MADISON GRANT,

*Honorary President:* HENRY FAIRFIELD OSBORN,

*First Vice-President:*

*Second Vice-President:*

FRANK K. STURGIS,

HENRY D. WHITON,

*Secretary:* WILLIAM WHITE NILES, 101 Park Avenue,

*Treasurer:* CORNELIUS R. AGNEW, 43 Exchange Place,

*Assistant Treasurer:* THE CITY BANK FARMERS TRUST COMPANY

---

## Executive Committee

MADISON GRANT, *Chairman*

WILLIAM WHITE NILES,

HENRY FAIRFIELD OSBORN, JR.,

FRANK K. STURGIS,

BAYARD DOMINICK,

HENRY D. WHITON,

DE FOREST GRANT,

W. REDMOND CROSS,

GEORGE C. CLARK,

CORNELIUS R. AGNEW, *Ex-officio*.

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## General Officers

W. REID BLAIR, *Director, Zoological Park,*

WILLIAM T. HORNADAY, *Director Emeritus,*

CHARLES H. TOWNSEND, *Director, New York Aquarium,*

H. C. RAVEN, *Prosector,*

H. DE B. PARSONS, *Consulting Engineer,*

R. L. CERERO, *Bursar,*

HERMANN W. MERKEL, *Consulting Landscape Architect.*

---

## Pension Board

LEWIS RUTHERFURD MORRIS, *Chairman,*

CORNELIUS R. AGNEW, *Treasurer,*

LEE S. CRANDALL, *Secretary,*

W. REID BLAIR,

W. REDMOND CROSS,

H. R. MITCHELL,

CHARLES H. TOWNSEND,

GEORGE BIRD GRINNELL,

GEORGE C. CLARK.

## Committees of the Society

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### Finance Committee

FRANK K. STURGIS, *Chairman*.

GEORGE C. CLARK,

LONDON K. THORNE,

W. REDMOND CROSS,

CORNELIUS R. AGNEW, *Ex-officio*.

---

### Auditing Committee

WILLIAM WHITE NILES, *Chairman*.

GEORGE C. CLARK,

GRAFTON PYNE,

MADISON GRANT, *Ex-officio*.

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### Art Committee

FRANK K. STURGIS.

---

### Editorial Committee

MADISON GRANT, *Chairman*.

W. REID BLAIR,

CHARLES H. TOWNSEND,

WILLIAM BEEBE,

GEORGE BIRD GRINNELL,

ELWIN R. SANBORN, *Secretary*.

---

### Nominating Committee for Officers and Committees

LEWIS RUTHERFURD MORRIS, *Chairman*.

GEORGE C. CLARK,

GEORGE BIRD GRINNELL.

**Nominating Committee for Board of Managers**

WILLIAM TURNBULL, *Chairman.*

CHARLES DE RHAM,

CHARLES A. DANA.

---

**Membership Committee**

HENRY FAIRFIELD OSBORN, JR., *Chairman.*

ROBERT GORDON MCKAY,

OLIVER D. FILLEY.

---

**Publicity Committee**

W. REID BLAIR, *Chairman.*

RAYMOND L. DITMARS,

ELWIN R. SANBORN,

WILLIAM BEEBE,

ROBERT GORDON MCKAY,

CHARLES H. TOWNSEND,

DE FOREST GRANT.

## Executive Staff

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### Officers of the Zoological Park

W. REID BLAIR, *Director and General Curator*,  
H. R. MITCHELL, *Manager*,  
R. L. DITMARS, *Curator, Mammals-Reptiles*,  
LEE S. CRANDALL, *Curator, Birds*,  
CHARLES V. NOBACK, *Veterinarian*,  
WILLIAM BEEBE, *Honorary Curator of Birds*,  
WILLIAM MITCHELL, *Cashier*,  
CHARLES RENNER, *Civil Engineer and Constructor*,  
CLAUDE W. LEISTER, *Ass't to Director and Curator, Educational Activities*,  
ELWIN R. SANBORN, *Editor and Photographer*.

---

### Officers of the Aquarium

CHARLES H. TOWNSEND, *Director*,  
CHARLES M. BREDER, JR., *Research Associate*  
MARVIN C. FENSTEMAKER, *Secretary*,  
JAMES C. MOORE, *Chief Engineer*.

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### Officers of the Department of Tropical Research

WILLIAM BEEBE, *Director*,  
JOHN TEE-VAN, *General Assistant*,  
GLORIA ELAINE HOLLISTER, *General Technician*.

---

### Staff, Kartabo, Bermuda and Arcturus Research Work

WILLIAM K. GREGORY,	A. L. TREADWELL,
CHARLES J. and MARIE FISH,	C. H. CURRAN,
LEE BOONE,	S. H. WILLIAMS,
H. P. BIGELOW,	G. C. ROBSON.









Hartmann Mountain Zebra (colt) *Equus zebra hartmanni*.



# REPORT OF THE EXECUTIVE COMMITTEE

MADISON GRANT, *Chairman*

---

THE Executive Committee submit the following report to the Board of Managers for the year 1929:

Three members of the Executive Committee died during the year. Mr. Ogden Mills, a Founder in Perpetuity and a member of the Board since 1908, died January 29th, 1929; Mr. Anthony R. Kuser, a Benefactor of the Society, a member of the Board since 1909 and a member of the Executive Committee since 1915, died February 8th, 1929 and Mr. Percy R. Pyne, a Founder in Perpetuity, a member of the Board of Managers since its organization, a member of the Executive Committee since 1906 and for many years Treasurer of the Society, died August 22nd, 1929.

Mr. Mills showed his keen interest in the Society by a bequest of \$50,000 in his will and Mr. Pyne generously bequeathed to the Society \$25,000. Both of these bequests have been paid in. The Society received a bequest of \$10,000 from Mrs. Alma C. Damon, the money when received to be held in trust and the income to be used for the maintenance of small aquaria at the Aquarium.

Mr. John A. Roebling made a gift of \$5,000 to the Society to be added to the General Endowment Fund and Mr. Edwin Thorne also gave the Society \$5,000, which amount was credited to the General Endowment Fund. The Society received \$1,250 from the Junior Auxiliary to purchase a banteng.

Messrs. Grafton H. Pyne, Kermit Roosevelt and Ogden L. Mills were added to the Board of Managers during the year. Mr. DeForest Grant and Mr. George C. Clark were elected members of the Executive Committee.

Mr. Edwin Thorne and Mr. John A. Roebling were elected Founders of the Society, Mr. Vivien Drake was elected a Patron and Mrs. Anthony R. Kuser and Mrs. Percy R. Pyne were elected Honorary Life Members.

Despite a very heavy deficiency in the City maintenance both of the Park and the Aquarium, which the Society had to make good, the year has closed with a substantial surplus in the Society's treasury. The City's allowance to the Society for the 1929 Park Maintenance Budget was \$323,359, with a supplementary allowance of \$15,000 for a flying cage.

The Aquarium received an appropriation of \$71,332 for maintenance during the year 1929 and an additional appropriation of \$65,000 was granted for construction work. A part of this money was expended in the building of a parapet wall which was included in the original plans for the improvement of the building, but had had to be omitted as the appropriation made at the time was not sufficient to cover this work. The parapet wall has been completed and has greatly improved the appearance of the building. The balance of the appropriation is to be used in building the additional tanks which were planned to fill the space formerly occupied by the heating and pumping plant and which will furnish not only some exceptionally large and interesting tanks, but will increase the exhibition space about 20%. The necessary formalities for awarding the contract for this work were not completed in time to permit the work being done during 1929.

The Society, at its own expense, has completed a very marked improvement in the Primate House by eliminating the small cages which formerly filled the west alcoves of this building and erecting some large cages similar to those on the east side of the building which not only afford much greater space to the animals exhibited, but give them light which was formerly lacking and add very greatly to the visibility from the view point of the public.

Many substantial improvements have been added during the year,—one of the most important being the installation of an oil burner in the Heads and Horns Building, thereby not only dispensing with the labor necessary to maintain a coal fire, but adding to the comfort of the building and the maintenance of the collection by eliminating ashes which were the inevitable accompaniment of the old-fashioned coal burning boiler.

The Society's collections have been maintained up to the standard of the past and some interesting additions have been made, the most

important some forty rare Birds of Paradise, and two hundred Australian and New Zealand birds brought back by Mr. Crandall on his return from New Guinea; a pair of snow leopards; a male tiger, the gift of William K. Vanderbilt; six polar bear cubs, presented by Colonel William Hayward and Philip M. Plant; a banteng, the gift of the Junior Auxiliary; four musk-ox calves from the east coast of Greenland; a female kiang; a pair of rare Siamese sambar deer and a pair of north African ostriches. The Gorilla has increased normally in size and is in excellent health and spirits largely due to the excellent care that he has received and the courage of Dr. Noback in breaking away from all previous conventions that a Gorilla must be reared like a hot house plant, and allowing him the run of an out-door cage, even in weather having several degrees of frost.

The Society participated in the Centennial celebration of the London Zoological Society by sending its Secretary to attend the celebration as its representative and by the presentation to the London Society of a six-year-old pigmy hippopotamus. The London Society was much gratified by the gift and expressed its appreciation of our Society's participation in its Centennial exercises.

The Art collection has been increased during the year, Mr. Bayard Dominick having presented a painting by A. Radclyffe Dugmore, "Water Hole, Northern Kenia"; former Park Commissioner John E. Eustis having bequeathed to the Society the oil painting "Sultan" by Carl Rungius, and the Society having purchased paintings of the Blue Birds of Paradise by Paul Bransom.

The activities of the Society in the field consisted of an expedition by Mr. William Beebe to Bermuda where he carried on intensive deep-sea exploration within a limited area, following the practice which he had employed in his work at Kartabo. This expedition was largely financed through the generosity of Mr. Harrison Williams and Mr. Mortimer L. Schiff, who each contributed \$15,000.

The following subscriptions were made to the Tropical Research Department during 1929 toward the salaries and expenses of Mr. Beebe and his staff:

Marshall Field .....	\$2,000.00
George F. Baker .....	1,000.00

Edward S. Harkness .....	1,000.00
Dr. Lewis R. Morris .....	500.00
Coleman du Pont .....	2,500.00
George D. Pratt .....	1,000.00
Robert S. Brewster .....	500.00
Judge Strong .....	1,000.00
L. F. V. Drake .....	1,000.00
William Beebe .....	1,000.00
Frederic C. Walcott .....	1,000.00
Burt Massee .....	2,000.00
Bermuda Board of Trade .....	500.00
	<hr/>
	\$15,000.00

Mr. Lee S. Crandall returned from the expedition to New Guinea after a most successful trip, bringing back many rare species of birds. This expedition, which was financed by the Society is notable in having been carried through within the sum of \$12,000 appropriated by the Society.

Director Townsend made a trip to Guadalupe Island off the coast of Mexico to determine the condition and extent of survival of the elephant seal herd and took occasion, while away, to visit and gain valuable information as to the whale fishing industry. He also looked into the matter of the proposed Tia Juana Estuary bird sanctuary, obtaining information which justified the Society in contributing to this estimable project.

The Society, in continuation of its policy of assisting those individuals and associations which are doing valuable work in the effort to establish game sanctuaries, forward protective legislation and aid in the enforcement of protective laws, has, during the year, contributed the sum of \$250 to Jack Miner, who has been doing some excellent work in feeding wild birds; \$1,000 to the State-County Parks and Beaches Association, which is endeavoring to establish a wild bird sanctuary at the Tia Juana Estuary in California, near the Mexican border, and \$1,000 to the Society for the Preservation of the Fauna of the British Empire, which is laboring for the protection of wild life throughout the British Dominions. Contributions were also made to the Kruger National Park and the European Bison Society.



## RECEPTIONS

The Twenty-first Annual Dinner to the Board of Managers was held through the courtesy of Mr. Madison Grant at the Union Club on Friday, December 27, 1929. Immediately after the dinner, the Annual Meeting of the Board of Managers was held.

The Spring Meeting of the Board of Managers was held in the Administration Building on May 16, 1929. The meeting was preceded by a luncheon and followed by the Annual Garden Party.

## MEMORANDUM OF MEETINGS

1930-1931

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Annual Meeting of the Society:

January 13, 1931

*Hotel Biltmore*

---

Meetings of Board of Managers:

*Annual Meeting:*

December 27, 1930

*Spring Meeting—Park:*

May 22, 1930

Preceded by luncheon

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Executive Committee Meetings:

*2nd Thursday Monthly*

January 9

February 13

March 20

April 10

May 8

June 12

October 9

November 13

December 11

## In Memoriam

---

OGDEN MILLS  
ANTHONY R. KUSER

---

*Extracts from the minutes of the 343rd Meeting of the  
Executive Committee held on Tuesday,  
February 19, 1929*

The Chairman reported the death on January 29, 1929 of Mr. Ogden Mills, and on motion duly seconded it was

*Resolved* that in the death of Ogden Mills the New York Zoological Society has sustained a great loss. Mr. Mills was a member of the Board of Managers since 1908. He was unfailing in his interest in the Society and was a most generous supporter of the various expeditions sent out by the Society.

The chairman also reported the death on February 8, 1929 of Mr. Anthony R. Kuser, and on motion duly seconded it was

*Resolved* that the Executive Committee learns with deepest regret of the death of its associate Col. Anthony R. Kuser at Palm Beach on February 9, 1929. Col. Kuser was a member of the Board of Managers since 1913. He was also a member of the Executive Committee and has been continuously interested in the welfare of the Society. His princely generosity has enabled the Society to publish the Monograph of the Pheasants of the World, one of the most beautiful monographs ever published. His loss to the Society and to his friends is irreparable.

## In Memoriam

---

PERCY R. PYNE

---

*Extracts from the minutes of the 346th Meeting of the  
Executive Committee held on Thursday,  
October 10, 1929*

The Chairman alluded in a few feeling words to the loss that the Society and his Committee had sustained in the death of Mr. Pyne and on motion duly seconded, the following memorial was adopted:

On August 22, 1929, members of the Society were saddened to learn of the death at his home at Bernardsville, New Jersey, of Percy R. Pyne, who had been a member of the Board of Managers of the New York Zoological Society since its organization, a member of its Executive Committee since 1906 and Treasurer of the Society for 19 years.

The regret occasioned by the news of Mr. Pyne's death was not due solely to his long continued interest in the Society and his generous contributions towards its needs, but to the feeling on the part of everyone who had ever come in contact with Mr. Pyne, that in his going a friend had been lost.

Mr. Pyne impressed those who had the privilege of his acquaintance that they had met a cultivated Christian gentleman in the true sense of that term.

His deep interest in the Society and his kindly nature had endeared him to his associates on the Board of Managers of the Society, and his death fills them with sorrow.

Members' Day and Ladies' Day at the Zoological Park:  
May 22, 1930, 3 P.M.

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#### AUDITING

The Auditors, Messrs. Peat, Marwick, Mitchell & Co., have audited and found correct the accounts of the Society.

The Auditors' Report, as well as that of the Auditing Committee, follows the Report of the Treasurer.

#### ACKNOWLEDGMENTS

The Directors of the Park and Aquarium and their respective staffs have worked faithfully to maintain their institutions at a high standard of efficiency. The Committee desires to acknowledge with appreciation their zeal and energy.

MADISON GRANT, *Chairman*

WILLIAM WHITE NILES

WILLIAM REDMOND CROSS

FRANK K. STURGIS

DEFOREST GRANT

BAYARD DOMINICK

HENRY FAIRFIELD OSBORN, JR.

HENRY D. WHITON

GEORGE C. CLARK

CORNELIUS R. AGNEW, *Ex-officio*







This lioness took excellent care of her first litter. At the time of producing this photograph the cubs were about six months old.

REPORT OF  
THE LADIES' AUXILIARY  
Of the New York Zoological Society

---

THE efforts of the Ladies' Auxiliary during the past year have been concentrated upon the maintenance of its enrollment, the increase of membership of the Junior Auxiliary and the further augmentation of their Endowment Fund. In all of these various branches of the organization the standard has been maintained and the progress and development have been most satisfactory. To create a department of such a character, successfully direct the efforts of its members and retain and coordinate their interests is work of worthy character.

Compared with several other organizations in New York, this Society is a young institution, and it is only through such constant care and attention that it can be made to grow.

The Auxiliary as a body has realized that condition and the ladies representing this very important branch of the Society have patiently and persistently carried on their work, and with most commendable zeal.

*The Endowment Fund:* Another important task of the Auxiliary has been the creation of an Endowment Fund, which would properly represent them among other funds of similar character.

This endeavor was started in 1908 and at the close of the fiscal year, 1929, of the Society, Mrs. Osborn reports the sum of \$5,680. Mrs. Marshall Field has accepted the Chairmanship of the Fund, which is a matter of great satisfaction to the Auxiliary. This Fund will be known as the Ladies' Auxiliary Endowment Fund, and it is hoped that it will be possible ultimately to increase it to \$100,000.

*The Garden Party:* Each year the Auxiliary has received the Members of the Society at the Zoological Park at the Garden Party given in May. This annual function was held in May 1929 as usual, and a large attendance of the members assembled at the Administration Building. Refreshments were served on the lawn and an excellent band played throughout the afternoon of a most typically sunny May day. The

new birds of paradise collected by Mr. Lee S. Crandall were a feature enjoyed by the visitors.

*The Junior Auxiliary:* Mrs. Michalis' efforts as Chairman of the Junior Auxiliary in increasing the enrollment of the young people of New York in the interests of the Society is an outstanding achievement. It is this youthful body that eventually will carry on the work which has been developed by the Society.

The youthful mind absorbs and retains early impressions most accurately and the force of these impressions in the later mature mind will be of paramount value in the future in carrying on the work of wild life preservation, one of the subjects in which the Society is vitally interested.

The membership of the Junior Auxiliary has been maintained at approximately the same total enrollment. There have been some resignations as the young people arrive at the Prep School and College age, but their places have been taken by new and more youthful members. The total of membership for 1929 is 328 individuals.

A fund of over \$900 has been added to the Treasury, and in accordance with the usual custom this sum will be expended for some new specimen for the collections of the Zoological Park.

At the Spring Meeting which was again held at the residence of Mrs. Henry Rogers Benjamin, a large and very enthusiastic audience greeted Mr. Raymond L. Ditmars with his interesting series of pictures made on one of his trips into the jungles of Honduras.

The Auxiliary commends the never failing courtesy of the officers and men of the Zoological Park, which has made their visits on various occasions a greatly added pleasure.

#### BRONX PARK TOURS

Summer Season 1929

Miss Pauline Robinson found it was possible, during the season of 1929, to begin the outings for children to Bronx Park during the Easter Season. The unusually warm spring days made these trips a greatly increased pleasure for the children.

Before planning the spring schedule of trips a thorough search was undertaken for children who might not have any privileges of such outings.

Since the settlements and children's institutions make provision in their summer budgets for outings and bus rides, it seemed better to eliminate them from the lists and substitute those who had no such opportunities.

"We were fortunate," writes Miss Madeline L. Stevens, N. Y. Representative, P.R.A.A., "in being able to gather such groups through the Health Centers, Clinics and among the street children with whom we have kept in touch since the old days of street playgrounds.

"On two occasions, I met the groups at the Park and spent part of the day with them. Their joy and enthusiasm over the great event, 'visiting the animals', was well worth seeing. So many little New Yorkers have never seen the Zoo, and their comments are amusing. One small boy remarked 'anybody with a nickel can ride in the subway, but it takes lots of money to ride in a bus.' Joe wrote 'it was great, let us know when we can go again and we will be ready'."

"Mrs. McCarthy writes: 'The mothers like it as well as the children, we have to take the children so far where they can play in the fresh air'."

From Hamilton House, Branch of Henry Street Settlement, Miss Frances Schron writes: "The children of our Play School wish me to tell you, Miss Stevens, how much they enjoyed their trip to Bronx Park. The experience was new to most of them. The older children are trying to outdo each other in recalling the long names of the animals which interested them most.

"We wish that more children could enjoy this great privilege which they remember with great happiness.

"I am sure that these outings are one of the most worthwhile forms of recreation for these under-privileged children, and it would be splendid if they could be spread over a longer period. The educational value of the study of animal life, and its changes in the various seasons would be very great."

A letter from Miss Thelma E. Carpenter, Recreation Worker of the Bellevue-Yorkville Health Demonstration states: "Your outings were



of the greatest interest to our children. They were never satisfied until they went to the Zoo. One boy, twelve years of age requested a trip to Bronx Park, since he had never been there."

The usual procedure was observed in these excursions: A long ride on the bus or by subway, a cool place for eating the abundant lunch provided, games and story telling. Then a trip through the Zoological Park and afterwards the bus ride home.

Following is a list of the contributions for Children's Excursions to the Zoological Park and a statement in detail showing the distribution of the costs, and various other items:

#### FUND FOR CHILDREN'S EXCURSIONS TO THE ZOOLOGICAL PARK

Summer Season 1929

Contributions received for Children's Excursions from members of The Ladies' Auxiliary through Miss Pauline Robinson, Chairman of Ladies' Auxiliary Committee for Children's Excursions:

Mrs. Gordon McKay .....	\$2.00
Mrs. William Woodward .....	5.00
Mrs. Arthur Fowler .....	5.00
Mrs. Henry R. Hoyt .....	10.00
Mrs. Marshall Field .....	50.00
Mrs. Sheldon Martin .....	5.00
Mrs. Wm. B. Osgood Field .....	10.00
Mrs. George Whitney .....	50.00
Mrs. Morgan Hamilton .....	10.00
Mrs. George F. Baker .....	50.00
Mrs. Stephen Olin .....	10.00
Mrs. Henry M. Tilford .....	25.00
Mrs. Reginald Fincke .....	10.00
Mrs. Clarence G. Michalis .....	10.00
Miss Mary Parsons .....	10.00
Mrs. Percy R. Pyne .....	10.00
Mrs. Richard Trimble .....	10.00

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Total .....\$282.00

## DAY EXCURSION TOURS TO THE ZOOLOGICAL PARK

Summer Season 1929

*Statement of Expense*

Center	Travel	Date	Children	Treat	Cost
Seward Playground	Bus	March 29	75	.....	\$15.00
Bellevue-Yorkville	Subway	April 2	60	.....	6.00
Hamilton House	Bus	April 2	80	.....	15.00
Bellevue Yorkville	Subway	April 6	60	.....	6.00
Day Nursery Group	Bus	May 25	70	.....	15.00
East 103rd St., Group	Bus	June 1	35	.....	15.00
Bellevue Clinic	Bus	June 15	50	.....	15.00
West 67th St., Group	Bus	June 22	60	.....	15.00
Columbus Hill (colored)	Bus	July 8	75	.....	15.00
Henry & Market St., Group	Bus	July 16	35	.....	15.00
Battery Park Playground	Bus	July 17	75	.....	15.00
Harlem Health Center	Bus	July 23	70	.....	15.00
Jr. Boy's Baseball League	Subway	July 30	100	10.00	10.00
Day Nursery Group	Bus	August 16	70	.....	15.00
Urban League	Subway	August 7	50	5.00	5.00
West 67th St., Group	Bus	August 4	60	.....	15.00
Hamilton House	Bus	August 28	70	.....	15.00
East 24th St., Group	Subway	August 29	50	4.00	4.00

Total number of trips, 18; number of children, 1,145; infants under two years, 21; mothers, 30; costs of transportation, \$226.00; treats, \$19.00; leaders in charge, 49.

Mrs. H. Fairfield Osborn, *Chairman*

MRS. CLARENCE G. MICHALIS

*Chairman, Junior Auxiliary of the Ladies' Auxiliary*

MISS PAULINE ROBINSON

*Chairman, Ladies' Auxiliary, Children's Excursions, Zoological Park*

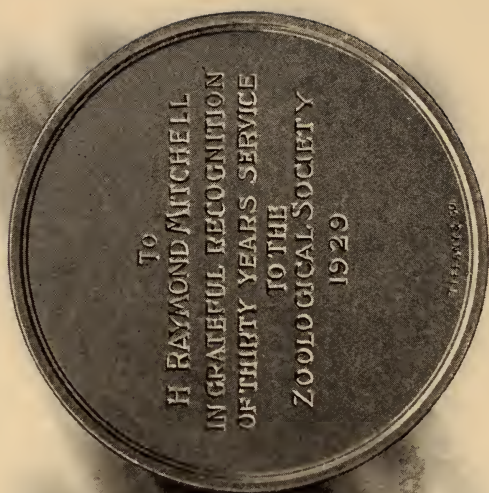
MRS. MARSHALL FIELD

*Chairman, Ladies' Auxiliary Endowment Fund*









Gold service medal presented to officers and men of the Zoological Park.  
November 7, 1929

# REPORT OF THE DIRECTOR OF THE ZOOLOGICAL PARK

W. REID BLAIR

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THE New York Zoological Park celebrated its Thirtieth anniversary on the evening of November 7th by presenting gold service medals to twelve officers and men of the Park staff who had served continuously since the Park was opened to the public on November 8, 1899.

The presentations were made by President Grant in the Administration Building before the entire personnel of the Park, and a few guests. Mr. Grant in his presentation address recalled the swampy and forbidding nature of the terrain of the park site when the Zoological Society took charge of the area more than thirty years ago. He spoke appreciatively of the work of the recipients of the medals, whose intelligence, devotion and self-sacrifice had contributed so much to the development of the Park.

The medals, which show on the obverse side the seal of the Zoological Society and on the reverse side the presentation inscription, were awarded to the following:

H. Raymond Mitchell, *Manager*.

Dr. William Beebe, *Director, Department of Tropical Research*.

Raymond L. Ditmars, *Curator of Mammals and Reptiles*.

Elwin R. Sanborn, *Editor and Photographer*.

John J. Toomey, *Head Keeper*.

John Quinn, *Keeper*.

Bernard McEnroe, *Keeper*.

Michael E. O'Keefe, *Assistant Forester*.

Ernest A. Costain, *Nurseryman*.

George H. McCluskey, *Carpenter*.

Rudolph H. Bell, *Cook*.

## ANIMAL COLLECTIONS

The year closed with the mammal, bird and reptile collections maintained at the high standard in zoological value that has prevailed

in recent years. The additions by gifts and purchases have given us a number of species which have never before been exhibited in America, the outstanding ones being a pair of snow leopards, spectacled bear, babirusa, Siamese sambar deer, a female kiang and Himalayan ibex.

#### ATTENDANCE

The attendance of visitors at the Zoological Park for the year 1929 constituted a record for this institution. The monthly attendance for 1929 and the corresponding figures for the previous year are as follows:

	1929	1928
January .....	80,294	114,991
February .....	148,972	131,176
March .....	264,434	113,394
April .....	212,351	232,158
May .....	353,939	345,641
June .....	382,746	423,123
July .....	383,689	387,514
August .....	347,843	259,183
September .....	304,727	298,524
October .....	214,814	210,078
November .....	105,847	118,080
December .....	90,598	126,129
	<hr/>	<hr/>
	2,890,254	2,759,991

#### NEW GUINEA EXPEDITION

The important event of the year was the return of Curator of Birds Lee S. Crandall from the Society's expedition to New Guinea with a splendid collection of Birds of Paradise and other species of New Guinea and Australian birds totalling 287 specimens and representing 75 species. Among the forty specimens of birds of paradise which Curator Crandall landed safely in New York on March 21 were many new to our collections. These have remained in good health throughout the year and our visitors have had a fine opportunity during the late fall to witness these wonderful birds in all the beauty of their full plumage display.

## EDUCATIONAL ACTIVITIES

On October 1 Claude Willard Leister, B.S., Ph.D., of Cornell University, joined the staff of the Zoological Park as Assistant to the Director and Curator of Educational Activities.

This new department has been in existence only since the first of October, 1929, and very little can be reported as having been accomplished during that short period. It will be desirable, however, to mention some of the aims of the department, and ways in which it may be found of service to the people of New York City in making more readily available the peculiar advantages of the Park.

It has been customary to keep a record of all groups of school children, Boy Scouts, Girl Scouts, etc., visiting the Park to study the animal collections. Thus we find that for a period of a year ending October 1, 1929, 715 of these groups, totalling 27,644 children, had visited the Park, 497 groups comprising 19,957 children coming from New York City alone. This indicates a tremendous possibility for teaching Natural History facts and a great opportunity for the Zoological Park to serve in an educational way.

Contact has been made with the principals of all the high schools and public schools of the city, informing them concerning the new department of Educational Activities at the Park, and asking their co-operation toward helping us in our efforts to make the Park collections more valuable as an aid to their work in natural science.

Dr. Leister will meet as many groups of older students coming to the Park as time will permit, and guide and assist them in their study of the animals. It is realized that very few teachers have the necessary background in Natural History to properly instruct groups of children that they may bring to the Park. As an initial effort to help these teachers, the Curator has prepared a chart or synopsis of the orders of mammals. It is intended that this shall be fully illustrated and published in the near future.

A series of lantern-slide talks are being prepared for school use. Slides for the first talk, "North American Mammals," are now in the hands of the colorist. These talks, illustrated by correctly colored slides, mostly from photographs of animals in the Park and covering a number of subjects, will of course be available, free of charge, to any school group requesting them.



The Society's excellent series of motion pictures on "Living Natural History" is available for use in the schools of the city. They are not being used nearly to the extent that their general excellence and worth should merit. Unfortunately the fire laws invoke so many rules, regulations and requirements when standard motion picture film is involved that many schools find its use impractical.. At the present time these schools are using 16 millimeter film to a considerable extent. Due to difficulties involved in the use of the larger film, the manufacture and development of apparatus handling the narrow film has been greatly encouraged, with the result that this 16 millimeter film can now be handled in the classroom with worthwhile results. In view of the above conditions, it seems desirable that the Society's films be also printed on this narrow width 16 millimeter stock.

#### SCIENTIFIC WORK

The available material from our collections at the Park is now being more fully utilized for scientific study because funds are becoming available for such work..

Mr. G. W. McClure, a postgraduate student of New York University, was granted a Zoological Society Research scholarship during the year and he has been engaged in making a survey of the internal parasites affecting our collections.

Professor Eric Ponder and his associates, Messrs. J. Franklin Yeager and Harry A. Charipper, have completed some original investigational work on the blood of the kangaroos and other marsupials which will soon be published in a number of "Zoologica."

Dr. Noback and Mr. Walter Modell have been engaged in the study of antler development and some interesting information has been obtained in reference to the early formation of bone tissue.

#### DEPARTMENT OF MAMMALS

RAYMOND L. DITMARS, *Curator*; JOHN TOOMEY, *Head Keeper*

Many important purchases of specimens were made during 1929. These included two gelada baboons, two mandrills, two De Brazzae monkeys, a black gibbon, two snow leopards, a lioness, a spectacled

bear, a silver fox, a South African fur seal, sixty prairie dogs (to form a new colony), five beavers, four musk-ox, a pair of Siamese sambar deer (which may represent a new subspecies), two elands, an ibex, a kiang, a babirusa, two giant red kangaroos and one Woodward kangaroo. Curator Crandall's expedition to New Guinea also added a particularly fine pair of echidnas.

There were numerous gifts, which are listed in detail in another portion of this report. Among the larger specimens presented were five polar bears from Colonel William Hayward and Philip M. Plant, a fine tiger from William K. Vanderbilt, and a black bear captured north of the Arctic Circle and presented by Colonel Robert Warren Wood.

There was considerable remodeling and repairing of animal buildings in bringing the structures and exhibition quarters up to date. Attendant with this was revision of labels, affecting data and size. New construction in the Primate House indicated larger labels, placed at the very top margin of the cages. These appear to be altogether satisfactory. A general revision of the mammal labels to conform to the latest scientific nomenclature generally accepted, is now under way. Revisions and changes of the systematic lists mean considerable detailed work for us at the Park, as there are hundreds of labels. Moreover, the Guide Book to the collections which has come to be considered important enough to be quite broadly used by teachers, must be re-edited to conform with the labels.

It is important to note that the male African elephant, Khartoum, by a measurement near the close of the year, showed a height of 10 feet,  $8\frac{1}{4}$  inches, which is only  $1\frac{3}{4}$  inches under the height of the famous Jumbo. Khartoum now appears to be the largest living elephant in the United States and it is probable that within a few years he may eclipse the height of Jumbo. He arrived at the Park on June 25th, 1907, and was then estimated to be between three and four years old. His height at the time was 4 feet,  $9\frac{1}{2}$  inches.

Through the cooperation of Mr. Renner, Chief of our Department of Forestry and Construction, and the advice of the Curator of Mammals and Reptiles, the Board of Education constructed a new zoological room at the Washington Irving High School, for the exhibition

during the school term of a series of mammals, birds and reptiles. This room is constructed on the broad roof of the school, has a southerly exposure with vitaglass façade, contains fourteen large cages, and is thoroughly planned as to sanitation and comfort of the specimens. The Curator of Mammals personally supervised the erection of shelves in the cages, trees and exercising devices, and wrote a series of detailed labels for the exhibits. The animals are loaned by the Society, and while the school has its own keeper, we make weekly inspections to co-operate and advise.

Following is a list of the animals born in the Park during 1929:

1 Mongoose Lemur	1 Wapiti
9 Aoudad	4 Axis Deer
1 Mouflon	2 Sambar Deer
3 Himalayan Tahr	3 Barasingha Deer
1 American Bison	3 Red Deer
2 Yak	2 Fallow Deer
1 Llama	1 Dybowski Deer
1 Nylghai	1 Chapman Zebra
1 Giraffe	1 Mountain Zebra
1 Pigmy Hippopotmus	1 Prjevalski Horse
1 Island Kangaroo	1 Black Swamp Wallaby
1 Black-faced Wallaby	1 Ring-tailed Wallaby

A census of the mammal collections taken on the last day of the year, is herewith given:

<i>Orders</i>	<i>Species</i>	<i>Specimens</i>
Primates .....	39	102
Carnivora .....	47	120
Pinnipedia .....	2	5
Rodentia .....	11	65
Ungulata (Artiodactyla) .....	56	228
Ungulata (Perissodactyla) .....	12	23
Proboscidea .....	3	3
Edentata .....	3	8
Marsupialia .....	9	27
Monotremata .....	1	2
Total .....	183	583



## DEPARTMENT OF BIRDS

LEE S. CRANDALL, *Curator*; WILLIAM BEEBE, *Honary Curator*;  
SAMUEL STACEY, *Head Keeper*

Increasing restrictions on the exportation of wild birds, enacted in many parts of the world, are being felt more each year by this Department. The larger dealers, on whom we have always drawn heavily for the bulk of our exhibits, are devoting themselves chiefly to the development of the profitable trade in canaries and parrots. In consequence of these two factors, most of the wild birds received are of the more common and easily obtained species. It becomes increasingly evident that eventually the Zoological Society will be compelled to rely upon its own initiative for obtaining rare and interesting birds for its collections.

In May, we fortunately were able to obtain a very fine pair of the North African Ostrich (*Struthio camelus*). Following the decrees of fashion which banished the ostrich plume, the great farms devoted to the propagation of these birds were given up to other purposes. Consequently, during recent years, ostriches have become very difficult to obtain.

As pelicans of all species are long-lived and showy birds, we were very glad to receive a specimen of the Dalmation Pelican (*Pelecanus crispus*), which arrived on July 13th. This bird is gray in general coloration, and nearly as large as the white pelican of Europe. It has not previously been represented in the Zoological Park.

In August, Mr. Michael Lerner presented to the Society a pair of lovely East African Crowned Cranes (*Balearica regulorum gibbericeps*). The head and neck of this uncommon bird are pale gray, in contrast to the darker coloration of the West African species, which is imported into this country in some numbers.

Early in September, a telephone call informed us that a bird had arrived for us on a steamer from Peru. We were delighted when our messenger returned with a beautiful White-breasted Cormorant (*Phalacrocorax bougainvillii*), a species which probably has not previously been kept in captivity. Its voyage to New York was purely accidental, for its presence aboard was unknown until the hatches were opened in New York. The ship received her cargo at a point about thirty miles north of Lima and the hatches were sealed at that time. How the stowaway managed to survive for a period of between two and three

weeks is a mystery. The bird was in good health on arrival at the Zoological Park and while naturally it was rather thin, it quickly returned to its normal condition.

The laying of additional water mains has been of great value to the entire Park, but no installation has derived greater benefit than the Wild Fowl Pond. Our fine collection of water fowl has suffered almost yearly from epidemics which we have attributed to an insufficient supply of water. There is now an abundant flow and there should be no recurrence of this trouble.

On March 21st the Curator returned from New Guinea, where he had been engaged in an expedition organized by the Zoological Society, for the purpose of collecting living birds of paradise. Leaving New York on August 9, 1928, the Curator arrived in Sydney, Australia, early in October. Here he was joined by Mr. J. E. Ward, an Australian naturalist with considerable experience in New Guinea. The party then proceeded to Port Moresby, in the Territory of Papua, formerly known as British New Guinea. Two months were spent in the interior, the expedition penetrating the western extension of the great Owen Stanley Range, to an elevation of about six thousand feet. A camp was established at about forty-five hundred feet and here an excellent collection of birds of paradise was made. On the return to the lowlands, a month was spent in further collecting.

After some difficulties, the birds were safely transported to Sydney, where there was a delay of nearly six weeks before suitable accommodations could be secured for the trip to New York. Eventually, through the courtesy of local officials, very desirable space was obtained on the Canadian Government freighter *Canadian Cruiser*. Mr. Ward felt unable to make the trip to New York, but fortunately his son Ernest was prevailed upon to do so and rendered excellent service in helping care for the collection.

Forty birds of paradise, of nine species, were placed aboard the *Cruiser* in Sydney and all were landed safely in New York, there having been no losses amongst them during the long trip of forty-three days. In addition, there were about two hundred other birds and mammals, amongst which were a number of rare Australian species, secured by purchase or through exchange with Mr. Ward. In order to make the

widest possible use of the birds of paradise, specimens were presented to the Zoological Gardens of Philadelphia, Washington and Milwaukee.

The expedition was able to obtain a large number of still photographs, five thousand feet of moving picture film and much data regarding both fauna and native life. These will be published in book form in the near future.

The sum of \$12,000, to cover the cost of the expedition, was appropriated from the private funds of the Zoological Society. This amount proved to have been very closely estimated, a balance of \$29.37 remaining when the account was closed on January 1st. The value of the living specimens brought safely to the Zoological Park is conservatively estimated at \$18,000.

#### SPECIES OF BIRDS NEW TO THE COLLECTION

Received During 1929

- D'Albertis Cassowary—*Casuarius casuarius sclateri* Salvadori  
 Brown-breasted Hill Partridge—*Arboricola brunneopecta* Tick  
 Malay Green-legged Hill Partridge—*Tropicoperdix charltoni* (Eyton)  
 Pin-tailed Fruit Pigeon—*Sphenocercus apicaudus* (Blyth)  
 Red-crowned Fruit Pigeon—*Ptilinopus pulchellus* Temm.  
 Golden-headed Fruit Pigeon—*Sylphitron ornatus gestroi* (Salvadori)  
 White-throated Pigeon—*Columba vitiensis halmaheira* (Bonap.)  
 Brown Pheasant-Pigeon—*Macropygia amboinensis cinereiceps* Tristram  
 Blue-billed Pheasant-Pigeon—*Macropygia nigrirostris* Salvadori  
 Reinwardt Pigeon—*Reinwardtoena reinwardtsi griseotincta* Hart.  
 Bustard-pigeon—*Otidiphaps nobilis cervicalis* Ramsay  
 Golden-crested Penguin—*Eudyptes chrysolophus* (Brandt)  
 Bougainville's White-breasted Cormorant—*Phalacrocorax bougainvillii* (Less.)  
 Dalmatian Pelican—*Pelecanus crispus* Bruch.  
 Lear's Macaw—*Anodorhynchus leari* Bonap.  
 Orange-faced Parrot—*Amazona xanthops* (Spix.)  
 Red Shining Parrakeet—*Pyrrhulopsis splendens* (Peale)  
 Cobalt Grass Parrakeet—*Melopsittacus undulatus* var.  
 Green-throated Mango Hummingbird—*Lampornis gramineus* (Gmel.)  
 Ruby-and-topaz Hummingbird—*Chrysolampis mosquitus* (Linn.)

- Brown-faced Touraco—*Gymnoschizorhis personata* (Rüpp.)  
 Malayan Black Cuckoo—*Eudynamis scolopaceus malayana* Cab. & Heine  
 Black-and-white Fantail Flycatcher—*Leucocirca tricolor tricolor*  
 (Vieill.)  
 Yellow-breasted Robin—*Eopsaltria australis australis* (White)  
 White-rumped Babbler—*Turdoides leucopygius* (Rüpp.)  
 Willow Thrush—*Hylocichla fuscescens salicicola* Ridgway  
 Thrush Nightingale—*Luscinia luscinia* (Linn.)  
 Russet Nightingale-thrush—*Catharus occidentalis occidentalis* (Scl.)  
 Superb Blue Wren—*Malurus cyaneus australis* North  
 White-rumped Wood Swallow—*Artamus leucorhynchus leucopygialis*  
 Gould  
 Chestnut Shrike-thrush—*Pitohui dichrous monticola* Roth.  
 New Guinea Friar-bird—*Philemon novaeguineae brevipennis* Roth. &  
 Hart.  
 Lichtenstein's Sparrow—*Melozona rubricatum rubricatum* Cabanis  
 Blue-and-yellow Tanager—*Thraupis bonariensis* (Gmel.)  
 Andaman White-headed Myna—*Sturnia malabarica andamanensis*  
 Blanford & Oates  
 Daurian Myna—*Agropsar sturnina* (Pall.)  
 Green Glossy Starling—*Aplonis cantoroides cantoroides* (Gray)  
 Long-tailed Bird of Paradise—*Epimachus fastosus meyeri* Finsch  
 Hunstein's Magnificent Bird of Paradise—*Dyphyllodes magnificus hun-*  
*steini* Meyer  
 James' Horned Manucode—*Phonygammus keraudrenii jamesi* Sharpe  
 Blue Manucode—*Manucodia chalybata orientalis* Salvadori  
 Lawes' Six-plumed Bird of Paradise—*Parotia lawesi lawesi* Ramsay  
 Lesser Superb Bird of Paradise—*Lophorina superba minor* Ramsay  
 Black-headed Catbird—*Ailuroedus melanotus melanocephalus* Ramsay  
 Blue-crested Jay—*Cyanocitta stelleri coronata* (Swains.)

## CENSUS OF BIRD DEPARTMENT

January 1, 1930

		Species	Specimens
Struthioniformes,	Ostriches .....	1	3
Casuariiformes,	Cassowaries and Emus .....	2	10
Tinamiformes,	Tinamous .....	1	1



Galliformes,	Quail, Pheasants, etc. ....	52	112
Columbiformes,	Pigeons and Doves ....	52	143
Ralliformes,	Rails and Gallinules ....	12	15
Lariformes,	Gulls and Terns ....	10	35
Charadriiformes,	Plovers and Sandpipers ....	9	13
Gruiformes,	Cranes, Seriemas, etc. ....	16	28
Ardeiformes,	Ibises, Storks and Herons ....	23	50
Palamedeiformes,	Screamers ....	1	1
Anseriformes,	Swans, Geese and Ducks ....	54	326
Pelecaniformes,	Cormorants, Pelicans, etc. ....	11	18
Cathartidiformes,	New World Vultures ....	3	7
Accipitriformes,	Old World Vultures, Hawks and Eagles ....	28	42
Strigiformes,	Owls ....	10	21
Psittaciformes,	Parrots, etc. ....	90	214
Coraciiformes,	Kingfishers, Hornbills, etc....	14	17
Cuculiformes,	Cuckoos and Touracos ....	7	10
Scansoriiformes,	Barbets and Toucans ....	12	17
Piciformes,	Woodpeckers ....	2	2
Passeriformes,	Perching Birds ....	332	723
		<hr/> 742	<hr/> 1,808

*Summary:* Orders, 22; Species, 742, Specimens, 1,808.

#### DEPARTMENT OF REPTILES

RAYMOND L. DITMARS, *Curator*; JOHN TOOMEY, *Head Keeper*

An important renovation of the Reptile House includes new cement floors for the easterly cages, retouching of panoramic backgrounds in the cages, and a completely new lighting system. The latter has been needed for a number of years. It relates not only to utility in working after exhibition hours, but for convenience of the public in this very popular building during stormy and dark afternoons and towards the close of short winter days.

The improvement has been rather surprising in its success. It was carefully planned from the viewpoint of pleasing effect and not for the sole purpose of obtaining sufficient illumination. A down-flooding light,

with heavy copper base, is attached to alternate columns between the larger cages. This light is shielded with an ovoid shade of heavy white glass, to prevent direct contact with visitors' eyes. The effect is to flood the cages with light, like the illumination of a show case and to impart a soft glow within the building itself. To illuminate the great central python cage, with its turreted mesh top and full-sized trees, there are two flood lamps close to the ceiling, the direct filament glow softened by ground glass. The effect of these overhead lights among the many big palms and tropical plants of the building is like moonlight over a jungle.

Among the important gifts during the year was a series of Brazilian reptiles and amphibians presented by Dr. Afranio do Amaral, Director of the Institute of Serum Therapy at Sao Paulo, Brazil. Dr. Amaral's series included the giant horned frog of almost unbelievable brilliance of coloration and strangeness of form. This specimen continues to thrive. The Zoological Gardens of Philadelphia presented us with a pair of huge electric eels. The Department is also indebted to the Crocker Laboratory, Scott and Bowne, the Banana Sales Corporation and the United Fruit Company for numerous gifts on frequent occasions.

Associated with Dr. Adolph Monaelesser, of New York, who is a life member of the Society, and Dr. Albert Calmette, of Paris, the Curator of Reptiles has continued a series of important research experiments relating to the separation of toxic elements from serpent venoms for application to physiological chemistry. Papers and lectures regarding this will shortly be formally presented before the medical associations in this country and in France.

Other scientific work of the Department has included the preparation of a booklet on the serpents of the northeastern United States. This was issued by the Society the past spring. It contains thirty pages and thirty-six illustrations from life. Interest in the publication was surprising, and while we printed a larger number of extra copies than usual, the edition has about run out and a new edition will be necessary to supply what appears to be steady demand for this work. Another booklet, of larger size, is now well under way. It will present, collectively, with complete illustrations from life, the poisonous snakes of North, Central and South America.

The Curator made a short tropical trip during the summer, visiting Panama and Costa Rica, and bringing back a series of motion picture records. A day was spent in going over the trails of Barro Colorado Island, situated in Gatun Lake in the Canal Zone. This island, which is under federal jurisdiction, is unique in being a sanctuary for American tropical animal life.

Following is a census of the reptile collections, taken at the close of the year:

	<i>Species</i>	<i>Specimens</i>
Turtles and Tortoises (Chelonia) .....	19	142
Serpents (Ophidia) .....	45	162
Lizards (Lacertilia) .....	9	21
Crocodylians (Crocodilia) .....	4	42
Amphibians .....	6	23
<hr/>		
Total .....	83	390

A census of the animals in the Zoological Park, taken December 31, 1928, is as follows:

	<i>Species</i>	<i>Specimens</i>
Mammals .....	183	583
Birds .....	756	1,847
Reptiles .....	83	390
<hr/>		
Total .....	1,022	2,820

#### REPORT OF THE VETERINARIAN

CHARLES V. NOBACK

The problem of maintaining a heterogeneous group of animals from various parts of the world in a zoological park requires the practical application of the principles of sanitation and preventative medicine. Each specimen of a zoological collection may be considered as a dynamic living individual which requires careful and close attention during the daily routine of feeding and cleaning. To meet the various requirements of these specimens it is necessary to consider such factors as quality of light, heat, ventilation, disinfection and dietary adjustments (use of available food to suit each individual) in order to maintain them in a state of good health under the conditions of captivity.

With the exception of some recently acquired animals which were in poor condition and unable to adapt themselves to their new environment, and a few old specimens, the collection has been maintained in good health during the past year.

Losses were largely confined to recently acquired specimens among the readily replaceable small mammals, such as the common short-lived carnivores, rodents and small monkeys. A number of older specimens lived their allotted time and met the inevitable fate of all individual forms of life.

Structural changes in the Primate House, by which the old small wooden cages were replaced by large, roomy, well-ventilated sanitary cages, brought about a marked improvement in the primate quarters. These changes together with the installation of artificial sun lamps and the adjustment of the diet of the delicate South American monkeys (sapajous and marmosets) had a beneficial effect upon the exhibit, as manifested by the activity and contentment of the animals in this group.

*Infectious Diseases.* No serious outbreak of infectious disease has occurred in our collections during the past year. Four cases of purulent sinusitis and broncho-pneumonia occurred among the porcupines. Quarantine of the infected specimens and disinfection of the quarters prevented a spread of this infection. Only one case of tuberculosis was found among the mammals and this was discovered in a red-headed mangabey monkey while in quarantine.

Both of the delicate specimens of Prong-horned Antelope succumbed to a broncho-pneumonia following a necrotic alveolar periostitis. Local medical and surgical treatment together with intravenous injection of Sodium Iodide did not check the progress of the disease. Bacteriological examination revealed the presence of *B. Coli*, *Staphylococci*, *Streptococci* and *Actinomyces necrophorus*. It seems that this delicate species (Prong-horned Antelope) when removed from its native environment does not survive in the East because apparently it does not possess sufficient resistance to this type of infection.

A female anoa succumbed to a septic metritis. Four kangaroos were lost on account of a necrotic alveolar periostitis (Kangaroo jaw disease).



*Parasitic Diseases.* A number of newly acquired animals harbored a limited number of intestinal nematodes, ascaridia, oxyuridae, strongylidae and a few tape worms. A systematic examination of the excreta of the animals at the Park for nematode eggs was begun in October by Mr. G. W. McClure, holder of the New York Zoological Society Fellowship.

*Old Age.* Among the specimens lost on account of the infirmities of old age are included an Alaskan Brown Bear with myocardial degeneration which had been at the Park for over twenty-eight years; an old baboon with arteriosclerosis which had been at the Park over twenty-eight years; an eighteen-year-old hyena and an eighteen-year-old Collared Peccary.

*Accidents.* There were few deaths caused by accident during the past year, being confined to a number of coati mundis which were killed by fighting when grouped in one cage. A Mexican wild cat was fatally injured by a neighboring puma.

*Tumors and Neoplasms.* For a number of years, except for a fibroma in an eland, no tumors were found on post mortem examination. The following, however, were found during the past year, as determined by gross examination. 1. Sarcoma of lungs and liver of a collared peccary which had been at the Park for over eighteen years. 2. A melanotic carcinoma, skin, lymph nodes of axilla, lungs, liver and mesentery in a dingo (Australian wild dog) at the Park for seven years. 3. Osteosarcoma of the left radius and ulna in a leopard.

A more detailed pathological description of the tumor cases is in preparation for a separate paper.

During December, 1929, our Indian rhinoceros suffered from a serious intestinal prolapse. Medical treatment was decided upon in consultation with Dr. D. J. Mangan, and after two weeks of treatment a complete recovery took place. The benefit of Dr. Mangan's extensive experience in cases of this kind proved to be very valuable.

#### COOPERATION WITH SCIENTIFIC WORKERS

The following includes some of the activities under this head:

1. Professor Arthur F. Coca, Department of Bacteriology and Immunology, Cornell University Medical School. Hair, skin and

scrapings from Musk-ox, Camel, Llama, Zebra and Prjevalski Horse. Material for research in protein sensitivity.

2. Professor Frederick P. Gay, Department of Bacteriology, College of Physicians and Surgeons, Columbia University. Starling and crow for the study of bird malaria.

3. Professor M. S. Schultz, Department of Physical Anthropology, Johns Hopkins University. Physical measurements, together with foot, hand and fingerprints of gorilla and chimpanzee at the Hospital.

4. Professor Horace M. Stunkard, Department of Biology, New York University. A study of parasite eggs by G. W. McClure, a graduate student of Professor Stunkard.

5. Curator G. K. Noble of the Department of Experimental Biology of the American Museum of Natural History. Facilities at the Park to conduct studies on the blood sugar content of hibernating animals.

6. A paper on "Direct Bone Formation in the Antler Tines of Two of the American Cervidae" by Charles V. Noback and Walter Modell were published in "Zoologica," Vol. 11, No. 7, 1930.

#### GORILLA

At the close of the year 1928, in the last Annual Report, it was hoped that the infant gorilla left to the care of the Society would continue to progress. As this rare anthropoid ape seldom survives very long in captivity, he was given the best possible care and treatment. During the month of January he developed a case of broncho-pneumonia and after about two weeks recovered from the acute attack. During the early part of spring, both James Penseroso, the baby gorilla, and Ellen Allegra, his chimpanzee companion, showed marked improvement in health. They were placed out of doors every day from about 8:30 A.M. until sunset and thrived much better by getting full benefit of the fresh air and sunlight. They gained in weight steadily, their eyes brightened and their hair coat became long and lustrous. It was decided to keep them out of doors daily as long as possible in order that they might get the full benefit of all the available value of winter sunlight. Contrary to the usually accepted opinion, Penseroso did not suffer from the cold of winter and has been outdoors every day during the cold

weather. He has not contracted a "cold" to the present writing and it seems that he will continue in good health.

On arrival he weighed  $17\frac{1}{4}$  lbs. At the close of 1929 his weight was  $39\frac{3}{4}$  lbs., a gain of  $22\frac{1}{2}$  lbs. in fourteen months.

While a beginning has been made in keeping this rare anthropoid ape, it is hoped that Penseroso, the baby gorilla, will continue to progress during the coming year.

#### DEPARTMENT OF ADMINISTRATION

H. R. MITCHELL, *Manager*; WILLIAM MITCHELL, *Cashier*

The original appropriation granted by the Board of Estimate for the maintenance of the Zoological Park for 1929 was \$323,359; to this they later in the year added \$15,000, for rebuilding the Flying Cage, which was constructed about thirty years ago and has for several years been in need of replacement. This addition brought the total maintenance appropriation from the City, for the year, to \$338,359.

The Zoological Society added the further sum of \$59,573.38, making the total expenditure for maintenance of the Park for the year \$398,032.32.

The contract for the Flying Cage, when let late in the year, amounted to \$19,613, making it necessary to provide \$4,613 over and above the \$15,000 allowance for the purpose which necessitated curtailing expenditures for supplies by that sum. Quite large expenditures were made during the year in continuing the erection of new boundary fences. Sections along the Boston Road and the Southern Boulevard were completed out of the maintenance funds, and it is planned to continue these replacements during the coming year insofar as funds available will permit.

The maintenance budget appropriation was again granted in a single line which aided us very materially in handling it to the best advantage in continuing the replacements to which we have just referred.

A very considerable amount was expended by the City in 1929 in replacement of water mains throughout the Park, but this expenditure was made entirely by the City independent of our appropriations.

The City Budget for the maintenance of the Park in 1930, carried the sum of \$335,784, to which it is hoped some addition will be made

early in the year. It will be necessary to supplement the appropriation by drawing upon the Zoological Society funds to the extent of about \$61,000.

*Accounts:* In January, 1929, a new account was created, to be known as Auxiliary Pension Account, from which regular pension payments to retired employees may be supplemented. A transfer of \$5,000 was made to this account from the General Income Account, and at the close of the year a further transfer was made of \$51,652.31.

A new account was created by resolution of the Executive Committee, to be known as the Ladies' Auxiliary Endowment Account, and the sum of \$5,680 transferred thereto from the General Endowment Account, this account covering subscriptions previously received from the Ladies' Auxiliary and credited to the General Endowment Account.

It was decided to separate the expenditures in connection with the year's Bermuda Expedition from those of the regular Tropical Research staff, and for this purpose a new account was opened under the title "1929 Bermuda Expedition," through which the expenses of the expedition amounting to \$32,524.67 were disbursed. A balance of \$475.33 remained in this account at the close of the year.

The remaining balance of \$3,511.96 in the New Guinea Account at the close of last year, was disbursed during the current year in connection with the expedition and the account closed. The practice of quarterly audits of our accounts, which has been in effect for several years, was made by Peat, Marwick, Mitchell & Co., and their certificate of audit will appear in connection with the Treasurer's Statement, together with the report of the Auditing Committee of the Society.

Mr. H. R. Mitchell attended the Annual Convention of the American Institute of Park Executives held at Miami, Florida, in November, as the representative of the Society. Stops were made at Washington, Richmond, and other points on the trip, where local officials entertained and gave the delegates an opportunity to see the progress being made in park and recreational planning. At Miami everything possible was done by the city officials and local committees, in co-operation with the institute officers, to make the convention a success. He was particularly glad of the opportunity to go through the National Zoological Park at Washington, which he had not visited for a number of years, and to



meet Park officials from all parts of the country, many of whom he had had the pleasure of meeting at some time on their visits to the New York Zoological Park. Attendance at such meetings and the contacts made cannot but be helpful to the officers of this and other institutions. He wishes to express his thanks to the Director and to the officers of the Zoological Society for the opportunity of attending this convention.

*Attendance:* Attendance for the year reached a total of 2,890,254, a gain of a little less than 5 per cent. over the previous year. At the close of the year, the thirtieth anniversary of the opening of the Park, the attendance reached a total of 54,008,393.

*Purchase and Sale of Animals:* Our requirements for the purchase of specimens in 1929 were somewhat below the past several years, reaching a total of \$21,783.69. The remittance from the Privilege Department at the close of the season was considerably in excess of that for last year, with the result that the balance carried to 1930, available for animals, was \$28,366.61 in addition to a balance of \$2,839.88 in the Cadwalader Animal Endowment Account, which is available for the same purpose.

*Privileges:* For the second consecutive year net profits from privileges were in excess of the previous year, showing a gain of more than 7 per cent. over last year as compared with a gain of 5 per cent. in attendance for the same period. The result was particularly gratifying, as it was accomplished after granting an increase in the salaries of all employees of the Privilege Department to equalize their rates with maintenance employees who were given a 5 per cent. increase during the year. Other changes in policy made at the beginning of the Privilege season very materially reduced the net figures for the year in certain items. These reductions were, however, overcome and the gain noted made on the combined total Privilege operations for the year. Many repairs and replacements are still badly needed, although much progress has been made along this line in the past several years. The roofs of several of the older buildings used in Privilege operations are in need of attention. They are leaking badly and causing deterioration that is fast becoming extensive. Some of these matters must have early attention and should be placed upon the 1930 program.

*New Refreshment Pavilion:* During the year just closed this new enterprise completed a full year's operation. A careful examination of the results are encouraging for the future. When the remaining improvements are completed it is believed a continual improvement in the volume of business at this location will be shown. The construction of the steps and balustrade adjoining the Pavilion were planned for the late fall of this year and early Spring of 1930, but the plans for this improvement have been held up and at this writing the date at which the work can proceed is indefinite, although we hope it may be at such time as will not seriously interfere with the coming season's business.

*Parking Space:* The first full year's use of the Parking Space fully justified the effort and expense in establishing and grading it. Some further work will be necessary to bring it to a complete finish.

Improvements in the past year included the finished grading, the erection of entrance gates, the installation of entrance and exit turnstiles adjoining the Buffalo Entrance, and the erection of a boundary fence along a portion of the north and west boundary to prevent traffic crossing the lawns opposite the Buffalo Corrals. These were all of very material aid in the safe and rapid handling of traffic at this point. It has been found possible for the Gateman at the Buffalo Entrance to handle the parking in addition to his other duties, except on Sundays and holidays. On such days in good weather, when filled to capacity (about 500 cars) the work can be handled by two men. We believe that before the coming season is over it will be necessary to turn cars away, owing to the lack of space. Flooding of the Parking Space area, which was causing trouble last year, was found to be due to a stoppage in the main sewer line caused by the growth of tree roots in the sewer. This condition was remedied during the Spring months by opening the line and removing roots.

*Rocking Stone Restaurant:* While gross business at the Rocking Stone Restaurant fell off slightly compared to the previous year, we were able to show a gain of nearly 6 per cent. in profit, indicating care in the handling of supplies by the Chef and good judgment in the matter of extra help employed by the Headwaiter and Steward. The Chef, who has been with us for the past seven years was granted a two months' vacation, to be taken immediately after the first of the coming year, to visit his former home in Europe.

Improvements are planned to be carried on at the Restaurant before the beginning of next season that will, we believe, add greatly to the service and also to the comfort and convenience of visitors as well as effect further economies in operation.

*Boating:* This branch of the Privileges made quite a remarkable gain in gross business, over 30 per cent. in excess of last season. To a considerable extent the showing was due to the fact that we lost very little business on account of rain. This condition prevailed throughout the heaviest part of the boating season. There was also much improvement in the handling of the boating, due to changes in personnel. Further improvements are planned for the coming year. Operation will continue under the same Foreman with a definite plan for improvement of service. It is planned next season to abandon entirely the electric launch operation which was originally covered by three electric launches, which were put into service many years ago. It has been necessary to dispose of two of these launches due to their long service. During the past season but one launch was continued in operation. A substantial surplus from launch operations has been remitted to the Animal Fund during the time these boats were in service.

*Boat House Restaurant:* The gross receipts at the Boat House Restaurant were practically the same as the past year, but operation showed a loss as it did in the last season. For some time the personnel in immediate charge of this privilege has been giving us trouble and great effort was made to remedy the difficulty but without success, so it was decided to close for the winter season on December 1st and open again with an entirely new force. The present plan is to make the Boat House Restaurant a seasonal operation, probably from April 1st to November 30th, and close it for the remaining four months. It is hoped a satisfactory result can be obtained in this way. In the meantime, renovation and alterations are being carried out so far as possible with our own force.

*Soda Water:* There was a considerable reduction in the net result in this division of the Privileges. Early in the year, in accordance with the desire of the Director, the operation of all temporary stands in use on Sundays and holidays was discontinued. These stands sold cheap drinks only, and as a result of this discontinuance gross sales

increased but net profits decreased in the Soda Water division, due to the fact that cheaper drinks, discontinued at temporary stands, carried a larger margin of profit than those making up gross sales at the regular stands. There was also a considerable reduction in sales and profits on package candies carried under the same account, owing to the discontinuance of these stands.

*Gate Receipts:* The returns from this source reached a total of \$20,023.45, less than \$10 over last year's figures. In accordance with the practice for several years the total revenue from this source was remitted monthly to the credit of the Improvement and Repair Account and added to the unexpended balance of \$22,869.22 carried forward in this account from 1928, made a total of \$42,893.37 available for the year's program, of which \$34,643.34 was disbursed as detailed in the Financial Reports, leaving a balance of \$8,250.03 carried to 1930. The Improvement and Repair Account for 1929 carried two major appropriations for repairs and alterations to the Monkey House and the Small Mammal House, totalling \$19,789.94, funds for which were supplied from the General Income Account, against which disbursements of \$12,685.54 were made, leaving a balance of \$7,104.40 for expenditures for continuing these improvements in 1930.

*Guide Book:* The Guide Book continues, as always, to be our best seller. The edition delivered late in 1928 was so depleted by the close of the year that an order was placed for a 25,000 edition to be delivered early in 1930, and available for selling by the first of March. Sales for the present year just closed will be well in excess of the 20,000 mark, and the grand total of Guide Book sales to date, about 400,000 copies.

*Miscellaneous Publications:* There was considerable increase in the sale of postal cards for the year and a corresponding addition to the net profits. More than 435,000 postal cards were disposed of during the year.

The sale of the Childs Book of Wild Animals has continued to be very satisfactory. It was necessary at the close of the year to place an order for a new edition of *Pets and How to Care for Them*, by Mr. Crandall. This edition, which is for 2,000 copies, will be ready during the coming year. Some improvements will be made in the appearance



of the new edition. The other miscellaneous publications show increases of approximately 10 per cent. in sales over the preceding year.

*Riding Animals:* There was a slight falling off in receipts from this source during the 1929 season and a corresponding proportional shrinkage in the net profits. Many improvements were made in this branch of the Privileges during the year. A new and permanent corral was built of ample size to give facilities for exercising of the ponies while not in use. The barn was divided by partition separating the pony section from the rest. A series of new stalls were constructed, affording much better living conditions for the ponies, and other minor improvements were made to facilitate the handling of a large number of children on crowded days with the minimum of danger. Foreman Cully, in charge of this branch, has been helpful with his ideas and suggestions and efforts to carry on improvement work during the winter.

*Baby Carriages:* There was an increase of about 10 per cent. in the number of mothers who availed themselves of this service. The service was installed with the idea of making it possible for the mothers of small children to come from a distance and see the Park, who would not otherwise be able to come and bring their children.. We are glad to continue this service if charges are sufficient to cover the heavy upkeep and replacement of such equipment.

#### DEPARTMENT OF FORESTRY AND CONSTRUCTION

CHARLES J. RENNER, *Chief Constructor & Engineer*; FRED. W. MINGST, *Assistant Constructor*; MICHAEL E. O'KEEFE, *Assistant Forester*;  
GEORGE SKENE, *Head Gardener*.

The maintenance and construction work within the Park proceeded with the usual routine during the past year. All the divisions did good work. In addition, men sent by the Association for the Improvement of the Condition of the Poor contributed considerable labor which enabled the Department to carry on more efficiently.

Much of the work done is such that it must continue steadily and surely in order that things may not become congested or destroyed. Such work includes hauling, heating, policing, the removal of waste, repairs to buildings, fences, walks, trees and shrubs, and general maintenance.

The principal tasks accomplished by the several divisions were as follows:

*Fences:* Replacements of the standard seven-foot Park and Paddock fence were made about the Buffalo, Emu, Camel, Virginia Deer, Musk Ox, Wild Horse, Llama and the two Antelope corrals, and also about the Axis Deer and Elk ranges; in all about 5,700 feet. Some of these corrals require renewals each year. On Boston Road at the Buffalo Entrance new gateways were constructed for the Parking Space and extending from them for 425 feet around the Parking Area a four-foot fence of copper covered wire was built to protect the surrounding woodland, which fence included new turnstiles.

*Cages:* The Primate House cages were entirely remade on the west side of the building according to new plans and the cages on the east side were renovated with new fronts, floors and gutters. Within the Large Bird House a series of eight cages were rebuilt for the Birds of Paradise and the center cage nearby was repaired and made rat proof. Other work at the Bird House consisted of repairing the outside cages on the west of the building. Similar repairs were made to the outside cages on the east of the Mammal House.

*Walks:* Tar patching was done throughout the Park and new tar surfaces were given to the Prairie Dog, Musk Ox, Small Deer, Antelope, Grant, Lower Buffalo, Shop Hill and Beaver Valley walks; about 9,000 square yards. Roads and walks were rebuilt from the Service Road to the Storage Yard entrance on Beaver Valley, at the Pony Triangle and at the Fordham Entrance; about 950 square yards.

*Painting:* All the window frames, doors and exposed woodwork of the various animal buildings were painted and in many cases replaced. The interiors of the Antelope House, Elephant Walk Comfort Station, Heads and Horns basement, Eagles' Winter House and Primate House were renovated. The Pheasants Aviary, outside Mammal House Cages, Lion House cages, several miles of guard wires and posts, and all new fences set were painted.

*Sheet Iron and Copper Work:* The large ventilator in the Bird House was renewed and the entire ridge of the building was replaced with copper. New flues were made for seven buildings which was about the usual average for each year.

*General Work:* The raised portion of the floor of the Lion House was reset. New gutters were installed at the Elk and Axis Deer barns.

New landings were made at the intermediate heights of the Italian Garden steps. A hole was prepared for the new Heads & Horns Building oil burner tank which was installed. A new road was built at the Nursery. The Otter Pools at the Wild Fowl Pond were removed.

*Carpenter Work:* Two new animal houses were built for the live stock at the Nursery and the old houses torn down. The new ones are light, airy and have cement floors and removable sides. At the Large Bird House a new storm door set was made. The Pheasants Aviary and the Pelican House extension received new roof coverings. In the Primate House the revolving doors were removed and new swinging doors made and installed. At the Reptile House new window frames were built in to replace those destroyed by fire.

*Boilers:* New boilers were installed in the Large Bird House, Small Deer House and the Elephant Walk Comfort Station. New sections were set in the boilers at the Primate, Lion, Large Bird, Reptile and Small Deer Houses, the Nursery and the Boston Road Comfort Station. All old boilers are being replaced as rapidly as funds permit and soon it is hoped there will be less need of time spent in repairs.

*Plumbing:* A new toilet and sewer was installed at the Buffalo Entrance. A new water system was constructed throughout the Park at a cost of about \$40,000 including pipe, valves and fire hydrants. This work was done by the Department of Water Supply, Gas & Electricity. On account of it many new connections were made available. Three artificial springs were built; one at the head of Cope Lake, one on the west side of the Wild Fowl Pond and one at the head of the Beaver Pond. They constitute a much needed and valued improvement. During the summer the main sewer of the Park blocked up near the Buffalo Entrance due to large bundles of roots forming within the pipes at the joints. They were removed and seventeen new half pipes set. Later at the Elephant corrals another block was experienced due to material gathering about some old obstruction in the pipe, which made it necessary to maintain power pumps for about two weeks steadily in order to prevent the cellars of the Elephant, Lion and Bird Houses from becoming flooded. After the obstruction was removed a new sixteen-foot manhole was built at the critical spot and it is expected that no further difficulty will be experienced there in future.

*Nursery:* Considerable breeding stock at the Nursery was renewed and all of the buildings repaired and painted. A new bridge was built and the old debris of many years accumulation generally cleaned up. The place is gradually assuming a new appearance and Mr. Schuler is to be complimented.

*Forestry and Gardening:* The usual propagation and preparation of plants at the greenhouses was attended to and the gardens well taken care of. The A.I.C.P. men under the direction of our gardener cleaned out and cleared the whole of the section of the woods between Boston Road and the west side of the Bronx River and in addition the regular men pruned many trees and removed about eighty found decayed and dead in the large area on the east side of the river. Much extra general pruning on shrubs and trees was done throughout the Park, due to a slight extra appropriation for such work. At the Italian Garden the old cedar trees, evergreens and shrubs were removed where they had become too overgrown to fit symmetrically into the landscape. New ones were transplanted from other locations in accordance with a plan given by Mr. H. W. Merkel, the Park's Consulting Landscape Architect. The whole now presents a much better groomed appearance. More work of the same nature is hoped for in the future.

*Outside Work:* This included boundary fences along the Boulevard from the Crotona Entrance to the Service Entrance and along Boston Road from the Buffalo Entrance to the Bronxdale Entrance; a new fire protection system throughout the Park, and a new roof on the Reptile House—the last designed by Mr. H. de B. Parsons, the Park's Consulting Engineer. Mr. Parsons has for several seasons presented us with plans and specifications for a number of important jobs, all of which have been done in a satisfactory and thorough manner.

#### DEPARTMENT OF PUBLICATION AND PHOTOGRAPHY

ELWIN R. SANBORN, *Editor and Photographer*; ANNIE R. NEWMAN, *Assistant*;  
EDWARD R. OSTERNDORFF, *Assistant Photographer*.

*Photography:* In the variety of its application, photography has achieved the distinction of an exact science. So numerous are the possibilities of this branch of the graphic arts, that specialists have entered the field and developed their work to an amazing standard of excellence. Men of great inventive minds have directed their attention not alone to



the perfection of the mechanics of photographic apparatus, but the various forms of light-sensitive materials as well. No matter what may be the conditions, the means for doing the work can be found. Specialists in the field of photography are as learned and varied as in that of medicine and surgery.

Photography is an exact and an exacting science, and to arrive at that stage of perfection in which not only the fundamentals are developed but the instinct also that is necessary to lend originality, is as long and rough a road as that of any scientific achievement. This thought always has been foremost in our minds in the forming of the Society's photographic department. We have persistently carried on this work with the idea ever before us that photography should be considered a great science. And its uses are of more value, more impressive, when this thought is kept constantly in mind.

Too many men have carried on their photographic work with the mechanical means at their disposal, with so trifling an application of brains, that their ultimate goal has never been other than indifferent success, if it could be called successful, at all.

The army of amateur photographers has created a demand for materials of such high class, that the discriminating professional may choose from this wealth of supply the means of scientific perfection in any branch that he may elect to pursue. He must be a student above all else and a worker of equal capacity.

It is this same army of amateurs that is invading the wilderness and with camera and film making imperishable records of inestimable value. These are the real sportsmen of the world. They are learning conservation, and a first hand knowledge of the industry and thrift of the various wild forms of the wilderness, not to be found in books. The camera and the film will eventually supersede the gun and the shell, and by so doing will have accomplished a great benefaction for the generations that will follow.

The photographic work of the Zoological Park has been pursued in as methodical a way as has been possible during the past year. Some of the results of our photographic records are herewith set forth: Elk (American Wapiti); fallow deer; eland; sing-sing waterbuck; nilghai; giraffe and immature young; white-fronted musk-oxen; Punjab

sheep; Chapman zebra and immature young; mountain zebra and immature young; Prjevalsky horses; American bison; American pronghorned antelope; Baird tapir; polar bear; snow leopard; Barbary lion and immature young; American wild cat; gorilla and chimpanzee; birds of paradise (three species); fawn-breasted bower bird; red-and-blue macaw; golden crested penguins; humming bird; Central American iguana; lizards and Cuban crocodile.

With the increasing demands for photographs by publishers, painters, sculptors, designers and for miscellaneous reference purposes, we are beginning to experience a need for more practical storage facilities for our negatives. The vault in the Administration Building now lacks sufficient space, is not as dry as it should be for such a purpose, and the location at such a distance from our working base is a handicap. We think that a closer contact would add greatly to economy of labor, and greater celerity of execution; and without doubt a more controllable atmospheric condition is vital in the preservation of photographic emulsions, which are extremely hygroscopic.

*Bulletin:* We have arrived at nearly a rational condition of issue with this publication. After a terrific effort we have succeeded in getting the Bulletin into a state of almost complete subjection. The standard of this publication has been maintained despite our meager resources for material and our comparatively small staff. Animal groups will continue to be the source of material upon which each number will be planned, with the addition of articles from a new correspondent in New Zealand, Dr. L. T. Griffin, Director of the Auckland Zoological Park, and also several others from Charles R. Barrett of Australia, one to deal with the kangaroos to be illustrated with the large collection of pictures of the specimens in the Zoological Park.

The Bulletin prepared by Mr. Ditmars on the snakes of New England and the Middle Atlantic States proved to have selling value, and the edition was exhausted except for copies kept for a permanent library record.

An unusual idea was developed around the results of Mr. Crandall's trip to New Guinea. The cover design—a purely decorative scheme in color, was contributed by Mr. Paul Bransom, a young artist who has devoted his art career to wild animal life. Mr. Bransom made this



contribution in acknowledgement of the assistance he realized from the collections of the Park. The edition of the Bulletin has been increased but slightly, as the Society has intended this publication solely for its members and not for general distribution.

*Zoologica:* Seven papers were issued in Zoologica during 1929, and are herewith listed: Vol. 9, No. 7, Field Observations on Flying Fishes, 20 pages, 5 figures, by C. M. Breder, Jr.; Vol. 9, No. 8, On the Extinct Galapagos Tortoise of Charles Island, 8 pages, 4 figures, by R. Broom; Vol. 9, No. 9, Records of Changes of Color Among Fishes, 60 pages, 12 text figures and 27 plates in color, by Charles Haskins Townsend; Vol. 9, No. 10, The Blue-spotted Sunfish, 24 pages, 10 figures, by C. M. Breder, Jr., and A. C. Redmond; Vol 11, No 2, Haematology of the Primates, 12 pages, by Eric Ponder, J. Franklin Yeager and Harry A. Charipper; Vol. 12, No. 1, Deep-sea Fish of the Hudson Gorge, 20 pages, 1 figure, and Vol. 12, No. 2, Haplophryne hudsonius, 16 pages, 4 figures, both by William Beebe.

*Mailing:* Despite all of our vigilance, there still are some pieces of mail that eventually come back as undeliverable. This is due to changes of address and failure to notify this department of the fact. Second class matter is not forwardable, and the return of such parcels involves the same postage-costs for return as direct mailing. If this section should be read by the members, we hope that their interest will be aroused to the importance of notification of changes of mailing points, and in cases of deaths in the family that we may be notified of this circumstance, also. Over 40,000 pieces of mail were sent out last year, and it is a matter of satisfaction to us that the percentage of returns was exceedingly small. In fact the only returns, practically, were those addressed to persons who changed their residence without telling of their new location. It is not within our prerogative to guess, and it is embarrassing to receive a rather warm communication after a lapse of time stating that the writer's mail has not been received or else the word that a member has passed on a long time back.

*Membership:* The addition of the payment membership-record cards from the Society's office to our regular index files has increased the work in this branch of our Department appreciably. Some confusion followed this transfer as it was made just at a season when the

staff was heavily taxed with work that had to be issued at that particular time. As the new work required meticulous care because of its exactness and our unfamiliarity with it, a few errors were made. Happily we were able to adjust ourselves to the new order of things, and have successfully combined the work with our already well established system. We have been authorized to provide extra clerical help, and this condition will be satisfied when we can add to the staff in a way that will not greatly increase the overhead costs.

The vital features of this Department are the photographs and publications, and in making this addition to the staff, we will bear that very thoughtfully in mind.

*Publicity:* We continue to have very friendly relations with foreign publications, and a personal contact with the editors of several of the more important European journals, especially *The Illustrated London News*. Mr. Bruce Ingram, the editor of the latter, is very cordial and through the Bulletin frequently presents material from that publication as only the News can do it. Besides this publication, several other illustrated journals in Holland, France and Germany are most eager to have the use of the letter press and illustrations from the Bulletin. These men are very keenly appreciative and their methods of reproduction are most surely worth while. They know how to print.

Following is a condensed review of the photographic work in the Zoological Park for the year 1929:

New Negatives .....	484
Prints for Publication .....	1044
Prints for Private Use .....	1976
Enlargements .....	82
Lantern Slides .....	14

Pictorial Section  
Zoological Park



Officers of the Zoological Park who received the thirty-year service medal. William Beebe, Director, Department of Tropical Research; H. Raymond Mitchell, Manager; Elwin R. Sanborn, Editor and Photographer; Raymond L. Ditmars, Curator of Mammals and Reptiles.

*Thirty-fourth Annual Report*



Recipients of the Zoological Society's thirty year service medal. *Lower:* William Parker; John Quinn; Michael E. O'Keefe; John J. Toomey; Bernard McEnroe. *Upper:* George H. McCluskey; Rudolph H. Bell; Ernest A. Costain.





The Society's infant gorilla from a photograph made on June 14, 1928, when he was about twenty-two months old. He weighed at that time twenty-six and one-half pounds. His weight at the present is forty-five pounds. He was received at the Park October 31, 1928. For further details see page 50 of this Report.



*Thirty-fourth Annual Report*



Mule deer *Odocoileus lemnus*. A species of western North America. This adult male was photographically recorded in early August while its new antlers were still growing and "in velvet".



These four examples of the white-fronted musk ox, *Oribos aardi*, arrived in October of 1929. They were captured in the vicinity of Franz Joseph Fjord, on the east coast of Greenland. They are growing rapidly.

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*Thirty-fourth Annual Report*



Siamese Sambar deer. This pair of young animals received during the year may represent a new subspecies. The antlers of the male are remarkable in growing from high and thickly haired bases. Definite determination is difficult until these specimens are mature.





Hartmann Mountain Zebra and colt. The colt was born in May 1929 and photographed in July.

*Thirty-fourth Annual Report*



The praying mantis. Numerous specimens were received from the south the past year for identification. The mantis has become fairly abundant after original importation. It is beneficial owing to its insect-eating habits.

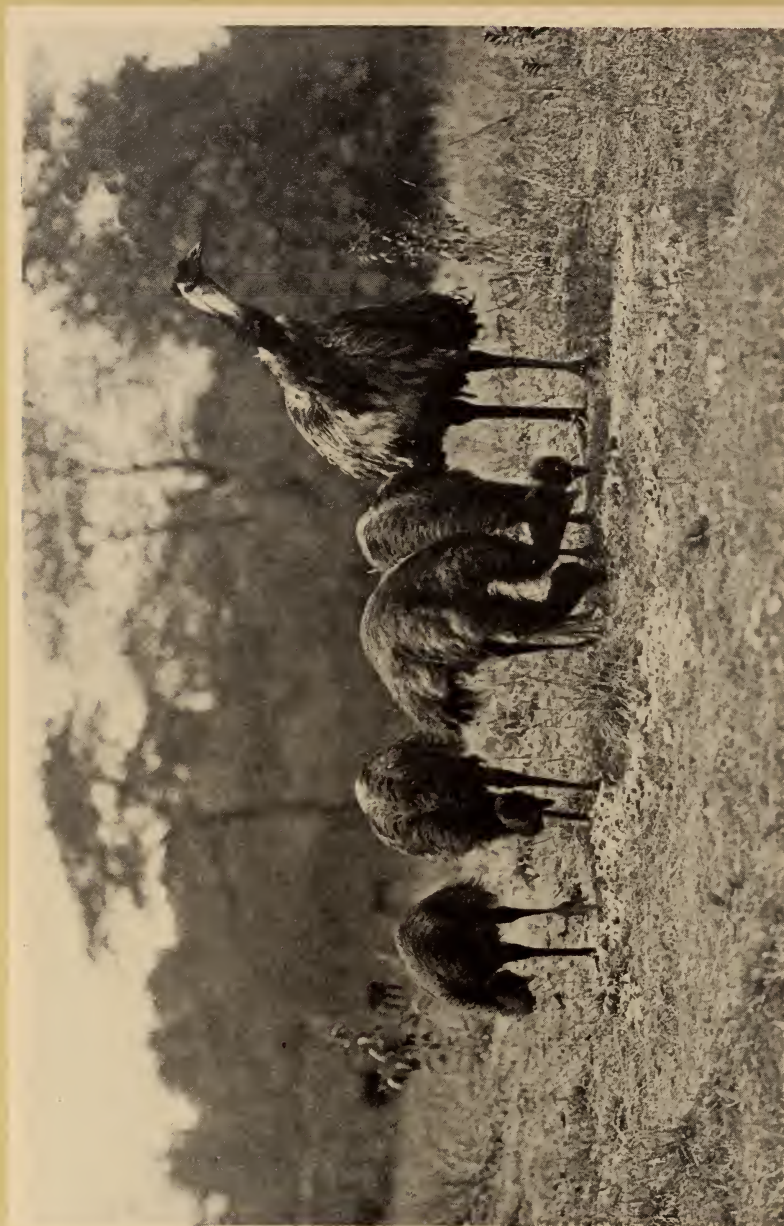


A spotted example of the American Wildcat, *Lynx rufus*. This species is broadly distributed over the United States, and several species are recognized. With some the spots and head markings are obscure.





*Upper: Spotted Cavy, Cuniculus paca. A large and rather sluggish rodent of tropical America. Lower: Nylghai Boselaphus tragocamelus. A week-old example born in the Park during 1929. The Nylghai is a large and beautiful antelope of India.*



Male Emu (*Dromiculus novaehollandiae novaehollandiae*) guarding a flock of five youngsters reared in the Zoological Park in 1929.

*Thirty-fourth Annual Report*



*Upper: The Shoebill (*Balaeniceps rex*) emulates Oliver Twist. Lower: Adult Bald Eagle (*Haliaeetus leucocephalus leucocephalus*)*





Our new pair of Rheas (*Rhea rothschildi*)



Male North African Ostrich (*Struthio camelus*), received at the Zoological Park in  
May, 1929.



The wonderful display of the peacock never fails to draw a circle of admirers.





Our Shoebill (*Balaeniceps rex*) in an unusual stretching attitude.



Mute Swan, *Cygnus olor*.  
Left: the rare Dalmatian Pelican (*Pelecanus crispus*).  
Right: European White Pelican (*Pelecanus onocrotalus*).

*Thirty-fourth Annual Report*



Upper left: Immature Long-tailed Bird of Paradise (*Epicimachus fastuosus meyeri*).  
 Center: Lesser Superb Bird of Paradise (*Lophorina superba minor*). Lower: New  
 Guinea Spotted Bower Bird (*Alphaclamydera cerviniventris recondita*).



Male Count Raggi's Bird of Paradise (*Paradisaea apoda raggiana*), brought from New Guinea by the Zoological Society's expedition.





Prince Rudolph's Male Blue Bird of Paradise (*Paradisornis rudolfi*), secured by the Zoological Society's Expedition to New Guinea.





Florida crocodile, *Crocodilus acutus*. An eleven-foot example weighing 315 pounds. This species occurs on the extreme southerly portion of Florida. Its range is through Mexico, Central America and northern South America.



Central American iguana, *Iguana tuberculata rhinolopha*. This northerly variety of a South American species is recognized by several enlarged spiny scales upon the snout. It attains a length of six feet.



Tarantulas from Panama. A large series of these creatures was exhibited during the year, during experiments with their venom.

# DISTRIBUTION OF SPECIMENS FROM THE ZOOLOGICAL SOCIETY

## REPORT OF

## THE DEPARTMENT OF COMPARATIVE ANATOMY

## AMERICAN MUSEUM OF NATURAL HISTORY

I SUBMIT herewith my report on the specimens received from the New York Zoological Society during the year 1929. Of the total number of 257 specimens, one, a harbor seal, came from the New York Aquarium and the balance from the New York Zoological Park.

The monthly receipts of material were as follows:

### NEW YORK ZOOLOGICAL SOCIETY

	<i>Specimens</i>		<i>Specimens</i>
January .....	42	July .....	29
February .....	47	August .....	12
March .....	19	September .....	11
April .....	22	October .....	9
May .....	12	November .....	17
June .....	18	December .....	19
Total .....			257

These specimens were distributed in the following manner:

Department of Mammalogy .....	29
Department of Ornithology .....	92
Department of Herpetology .....	63
Department of Ichthyology .....	1
Department of Comparative Anatomy .....	37
Department of Preparation .....	3
College of Physicians and Surgeons .....	25
Harvard University .....	1
New York University .....	1
Not Utilized .....	5

257

WILLIAM K. GREGORY, *Curator*.







REPORT OF  
THE PENSION BOARD  
TO THE BOARD OF MANAGERS

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UNDER the Chairmanship of Dr. Lewis Rutherford Morris, the Pension Board, as in previous years, held its meetings at the office of Mr. Cornelius R. Agnew, Treasurer, 43 Exchange Place.

The personnel of the Board for 1929 was as follows: Dr. Lewis Rutherford Morris, Chairman; Mr. W. Redmond Cross, Vice-Chairman; Mr. Cornelius R. Agnew, Treasurer; Mr. H. R. Mitchell, Assistant Treasurer; Mr. Lee. S. Crandall, Secretary; Dr. W. Reid Blair, Mr. George C. Clark, Dr. George Bird Grinnell and Dr. Charles H. Townsend.

Prior to Mr. Crandall's return from New Guinea, in March, Dr. W. Reid Blair acted as Secretary.

During the year, superannuation pensions were granted to E. A. Costain, after a service of thirty years and five months, and to Albert Walker, after a service of twenty-four years and eight months.

A widow's pension was granted to Mrs. Rosa Schwarz, widow of August Schwarz, former Keeper in the Lion House.

David Daley, an Aquarium employe with a service record of twenty-seven years, died November 22, 1929. A death benefit of \$513 was paid to his beneficiary.

Three employes reached the age of sixty-five during the year, exempting them from the further payment of pension dues. There was but one resignation from the Pension Fund. Six new members were added, bringing the total membership to 126.

Pension Fund disbursements for 1929 were \$13,898.70, as compared with \$12,851.23 for 1928. At the close of the year there were twenty-three pensioners, calling for a monthly disbursement of \$1,261.50.

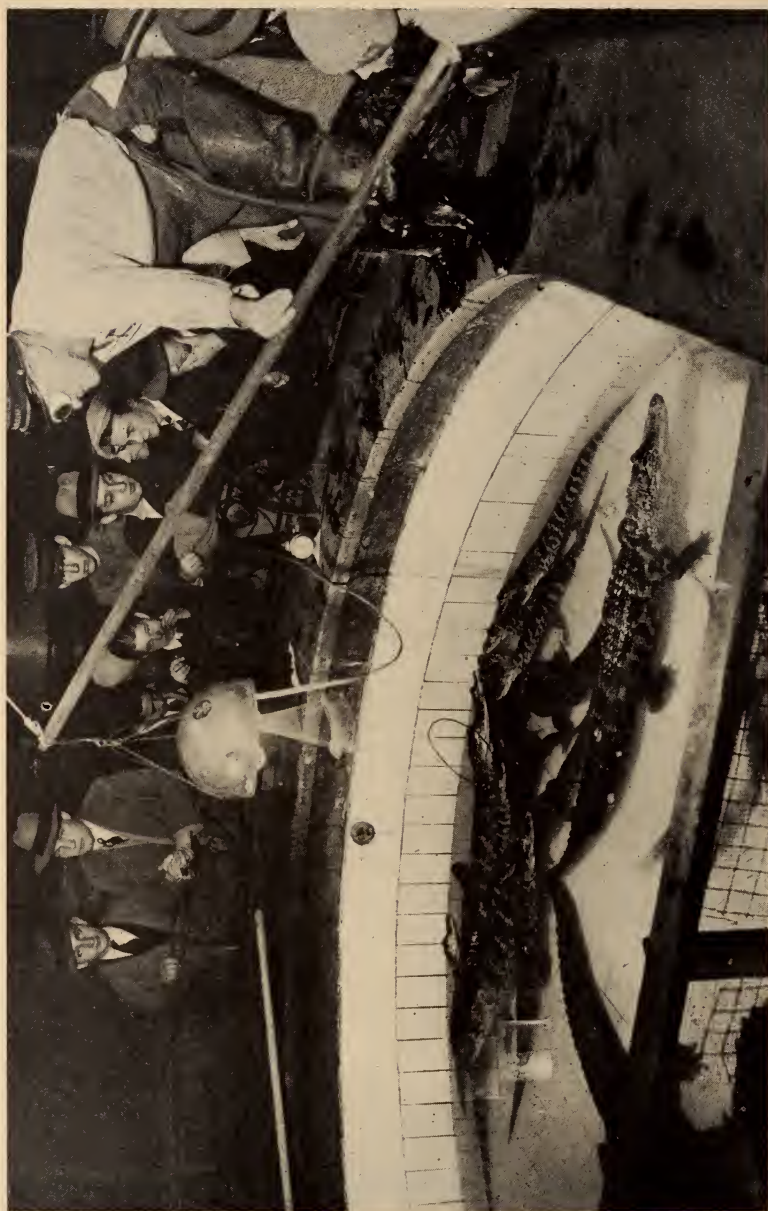
In spite of the gradual but constant increase in pension disbursements, the fund made a net gain in resources of \$5,037.54, bringing the total at the close of the year to \$149,935.24.

LEWIS R. MORRIS, *Chairman.*

LEE S. CRANDALL, *Secretary.*







Treating alligators with "artificial sunlight", providing them with the beneficial ultra-violet rays. Animals which normally spend much time in the sun especially require some substitute. Photo by International News.

# REPORT OF THE DIRECTOR OF THE AQUARIUM

CHARLES M. BREDER, JR.  
*Research Associate*<sup>1</sup>

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THE progress of the New York Aquarium throughout the year 1929 presented many encouraging features. Building and equipment improvements reached a point at which a considerable degree of satisfaction was obtained, and there is every hope of reaching an early completion of the remaining most needed changes. The exhibition presented a somewhat more varied collection than usual, because the major work of collecting was carried on in new fields. Important new methods were instigated following an investigation of the environmental needs of marine fishes. These have already yielded significant results and have given a better understanding of the requirements of such specimens. There has been an increase in cooperation with other institutions that is developing some very satisfactory and cordial relationships.

## THE LIVING EXHIBITS

The collections of the Aquarium numbered as follows on Dec. 31, 1929.

	<i>Species</i>	<i>Specimens</i>
Mammals .....	1	4
Birds .....	5	12
Reptiles .....	19	264
Amphibians .....	11	72
Fishes .....	154	4,022
Invertebrates .....	19	937
	<hr/>	<hr/>
	209	5,311

This list does not include various small fishes and invertebrates available as food for the larger specimens and for other purposes. There has been a marked increase in both numbers of specimens and

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<sup>1</sup> Prepared for the Director, Dr. C. H. Townsend.



species over last year, owing, in part, to the development of a technique which provides satisfactory control of certain parasites.

*Specimens of Note:* For the first time in many years we have been able to exhibit a collection of Sandfish, *Malcanthus plumeri*. When once established these fishes are hardy and thrive well. In a state of nature this species spends much time buried in the sand close to the shore, but in the Aquarium most of the daytime, at least, is spent free in the water.

A large number of Queen Triggerfish, *Balistes vetula*, made a rather handsome display. When kept in large numbers, over 150, they seem to be too much diverted by their numerous companions to fight, as usually happens when a few are placed together. Although, primarily, not a schooling fish they thrive unusually well under such conditions.

Several European starfish, *Asterias glacialis* presented by the Gothenburg Aquarium in early December, are living well and, with their long slender arms, are much more attractive than our local species which is not a very satisfactory aquarium animal.

The Galapagos Penguin, *Spheniscus mendiculus*, is in a most thriving condition, having passed the winter and a second moult successfully. We attribute part of this to winter treatment with ultra-violet irradiations. During the summer it was the custom to give the bird air and sunshine on the Aquarium roof, but such abject fear was displayed at passing airplanes that the practice was continued only under the constant eye of an attendant. The Penguin would run to him for protection at the first distant drone of an airplane. Fear of hawks, without the proximity of sheltering water, is a conjecture as the source of this reaction.

A young Sea Lion, *Zalophus californianus*, born at Central Park on June 12, 1929, was brought to the Aquarium with its mother on September 23, while still nursing. It was not until the latter part of November that it began eating freely, although at this writing it still occasionally nurses.

Two White Pelicans, *Pelicanus erythrorhynchus*, enliven the appearance of one of the floor pools.

Black-banded, *Mesogonistius chaetodon*, Blue-spotted, *Enneacanthus gloriosus*, and Mud Sunfish, *Acantharcus pomotis*, from the New

Jersey pine barrens region were added to the collection of local Sunfishes.

A large Leatherback Sea Turtle, *Sphargis cariacea*, of 550 pounds, lived in one of the floor pools for about two weeks. This caused considerable interest as these animals are not frequently seen and never in captivity for any length of time.

*Fish Hatchery:* The following fish eggs were incubated in the hatchery:

Fish Eggs Donated for the Hatchery.

By U. S. Bureau of Fisheries.

7,000 Chinook Salmon, from Washington.

10,000 Rainbow Trout, from Iowa.

10,000 Black-spotted Trout, from Montana.

By New York State Hatchery.

1½ pints Tomcod, from Coldspring Harbor.

1½ pints Smelt, from Coldspring Harbor.

The results of the work of the hatchery were distributed as follows:

Brook Trout (Fingerlings) to Interstate Park 3,000.

Chinook Salmon (Fingerlings) to Interstate Park 1,000.

Rainbow Trout (Fingerlings) to Interstate Park 3,000.

Tomcod and Smelt and 800 Chinook Salmon eggs to the laboratory for experimental purposes.

*Work of the Collecting Boat:* The collecting boat *Seahorse*, now in her tenth year of service was given a general overhauling. A total of 13 trips of from 1 to 4 days duration was made. This is somewhat fewer than formerly, the reason being the unusual amount of tropical fishes brought from Nassau needing space generally devoted to the mostly less attractive local species.

*Collections by the Staff:* Three trips were made to Nassau, Bahamas, by Mr. J. J. Shea, for the collection of tropical fishes. We are deeply grateful to the Munson Steamship Line, the management of which made every effort to make this venture a success, as well as to many residents of Nassau who were untiring in their efforts on our behalf. Especially does this apply to Mr. H. E. Aspinall and Mr. J. P. Sands. Key West, Florida, was not visited this year for collecting purposes because of the bacterial eye infection existing there. Both Dr.

Townsend and Mr. Breder in passing through there this year at different times saw infected fishes. We are given to understand that the local authorities are making efforts to clean up the harbor as it is believed that the focus of this infection is harbor contamination.

*Boarded Animals:* Two Sea Lions (mother and pup) were housed during the winter months for the Central Park Zoo, and four Harbor Seals for Young's Million Dollar Pier at Atlantic City.

#### PUBLIC RELATIONS

*Attendance:* The attendance for the year was 2,436,051, the maintenance of a high average continuing satisfactorily from year to year.

*Gifts:* The more notable gifts presented to the Aquarium during the year include the following:

Mr. Henry D. Whiton again renewed the supply of fresh sea water for the reservoir, this time to the extent of 110,000 gallons.

A 550 pound Leatherback Turtle from Chesebro Bros. & Robbins.

*Schools:* A total of 15,106 pupils were brought to the Aquarium in class groups by 580 teachers.

*Publicity:* Some very proper publicity for the Aquarium was obtained through the following agencies:

Two addresses were given over the municipal radio station WNYC by Mr. Thomas Howley.

Motion pictures were prepared by the Harvard Educational Film Foundation, and the Metro-Goldwyn-Mayer Newsreel Corporation.

Newspapers were given releases of information of general interest from time to time.

*Cooperation with other institutions:* All dead specimens of value for dissection and similar purposes were distributed to such nearby institutions that could use them in their work. Again the demands of schools for small marine aquarium material greatly exceeded the supply possible for us to carry. An unusual number of requests from research workers in various universities for special material that they could not very well obtain otherwise, made it impossible to supply them all. Every effort, however, was made to supply such workers without actually curtailing the exhibits.

Pictorial Section  
New York Aquarium





Head of whale hoisted to deck, observe "whalebone" of upper jaw.



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Feeding the tame green morays. These large tropical eels, which can inflict dangerous wounds, soon learn to feed from the hand. At times when especially hungry they wriggle up on the cement coping, and help themselves from the pan of fish at the attendant's right. Photo by International News.



Apparatus used for keeping the stored sea water in a proper chemical condition by the proportional addition of a solution neutralizing the organic wastes which would otherwise accumulate.



Floating Factory "Lansing".





*Upper:* One of the four Hunting Boats of Steamer "Lansing".  
*Lower:* Modern whaling gun, carrying line and explosive bomb.

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*Upper:* Flensing deck, Steamer "Lansing". Cutting blubber for the digesters, the open tops of which show at left. *Lower:* Elephant Seals, Guadalupe Island, September, 1929. Young animals of various ages.





Gifts of a small collection of fresh water fishes were sent to both of the following institutions which opened small aquarium exhibits in connection with their other work.

The Buffalo Museum, Humboldt Park, Buffalo, N. Y.

Roger Williams Park, Providence, Rhode Island.

Horseshoe Crabs were sent to the Steinhardt Aquarium as well as to foreign institutions in the following cities:

Hamburg (also turtles), and Bremen, Germany; St. Laurens, France; London and Brighton, England; Lisbon, Portugal.

The Aquarium participated in the transmission of *Gambusia* for Mosquito control from the U. S. Bureau of Fisheries to the Republic of Columbia.

*Exchanges:* Exchanges were made with the following institutions:

University of Pennsylvania Medical School, Philadelphia, Pa.

Belle Isle Aquarium, Detroit, Michigan.

Berlin Aquarium, Berlin, Germany.

Aquarienfisch Import & Export Company, Wandsbek, Germany.

Stadisches Museum for Nature, Bremen, Germany.

Gothenburg Aquarium, Sweden.

#### THE BUILDING AND EQUIPMENT

*Parapet:* The long-planned parapet around the outer wall of the building is now practically finished, and with its completion the exterior of the building is considered finished in accordance with the plans approved by the New York City Art Commission.

*Additional Exhibition Space:* The equally long-planned renovation of the rear of the building with the establishment of two very large tanks and a considerable number of small tanks for permanently small fishes is ready to pass into the hands of the contractors at this time. With this completed the major features of the planned improvement will have been realized, and more attention may be given to the smaller details that go so far to make such an institution attractive.

*Lighting System:* The old and now antiquated lighting system, all but failing, was condemned by the City Department of Water, Gas & Electricity. The Department also undertook experiments with new lighting fixtures in cooperation with the Aquarium officers, and have

drawn up plans for a modern and adequate lighting system. The installation of such will do much to improve the attractiveness of the entire exhibition, and we are their debtors for the interest and efforts of their Electrical Engineers in this matter.

*Gallery Floor:* The floor of the gallery, well worn by millions of pairs of feet, is being covered with a heavy grade of linoleum.

*Dark Room:* A well-appointed dark room for photographic and biological purposes was erected in the outer laboratory in the early part of the year, and has since proven invaluable in many instances.

*Central Dome:* The interior of the central dome, originally gilded but long since aged and water-stained, was regilded by our own men, greatly improving its appearance. This was a particularly dangerous and difficult piece of work, and could not be done nearly so cheaply by outside contractors.

*Fire Protection:* The fire protection system as required by the New York fire inspection service was completed in the early part of the year.

*Budget:* The City of New York provided a maintenance fund of \$71,232.00 for the year 1929. In addition to this, the City appropriated the sum of \$5,000.00 for the erection of a parapet around the outer wall of the building, and \$60,000.00 for new exhibition tanks in the space formerly occupied by the old pumping plant. The New York Zoological Society provided from its own funds the sum of \$13,670.81 as an additional compensation to the employees of the Aquarium, and for providing additional exhibits.

#### EXTRA-MURAL ACTIVITIES

*Guadalupe Island Seals:* Dr. Townsend, as guest of the San Diego Zoological Society, visited Guadalupe Island, Lower California, to ascertain the present condition of the herds of seals existing there. The Northern Elephant Seal, *Mirounga angustirostris*, was found to have increased in numbers since his visit there in 1911, and 469 were counted. This is the only surviving colony of this species. A search was made for the Lower California Fur Seal, *Arctocephalus townsendi*, a number of which were seen there in May, 1929, but the breeding season was past and the seals had left. This is also a species now known only from Guadalupe Island.

*Galapagos Tortoises:* The colonies of giant tortoises located at various points along the southern border of the United States were revisited by Dr. Townsend, who had established them in 1928 for the New York Zoological Society. These tortoises have shown excellent growth, most of them having doubled in weight during the past year. Through the valuable cooperation of Dr. W. J. Matheson of Coconut Grove, Florida, a new colony of Galapagos Tortoise was established in Lignum Vitae Key.

*Tia Juana Bird Refuge:* While in southern California, Dr. Townsend, by direction of the New York Zoological Society, inspected the proposed state bird refuge at the Tia Juana Estuary close to the boundary between California and Mexico. His report to the Society was favorable to the location of a wild life refuge at that point.

*Whaling in California Waters:* Taking advantage of a favorable opportunity, Dr. Townsend spent a week with the whaling vessels operating from San Clemente Island, California. The modern whaling industry has greatly expanded during recent years, and whales are being killed in great numbers in many seas. The results of his studies of this subject will be set forth in detail, and with many illustrations, in the January number of the Zoological Society Bulletin.

*Dry Tortugas:* Mr. Breder, as guest of the Carnegie Institution, spent his vacation at their field station on the Dry Tortugas at the extreme western end of the chain of Florida Keys. His work consisted primarily of gathering data on Needlefishes, Halfbeaks, Flying Fishes, etc. (Synentognathi). Many incidental observations were made on species commonly kept in the Aquarium in regard to their habits, preferences, and requirements which interlock with various practical Aquarium matters concerning their care.

..

*Southside Sportsmen's Club:* Mr. Howley visited the Southside Sportsmen's Club at Oakdale, Long Island, to examine their water conditions which had been causing some trouble in their trout hatchery. He was able to make some useful determinations for them.

#### WORK OF THE LABORATORY

Due to the equipment acquired last year, and that added this year, some vital matters that needed laboratory control have been carried to an exceedingly satisfactory point.



*Chemical control of sea water:* The problem of maintaining in stored sea water the proper chemical quantities has always been a difficulty that leads eventually to serious consequences in all aquariums so equipped. Because of the possession of suitable analytical equipment, Mr. Breder, assisted by Mr. Howley, has been able to make the proper water analysis, and has devised a method for controlling the most important of these. We are deeply indebted to Dr. Homer Smith and Mr. N. Farnacci of Bellevue Medical College for their liberal support in matters of organic chemistry, without which we could have proceeded only at a very unsteady pace. The full details of the matter of controlling the synthetic environment of aquaria is in the course of preparation and intended to appear in *Zoologica*. A brief statement, however, may be made here outlining one particular item of paramount importance which is now a matter of routine.

Animal excretions, being predominantly acid in nature, destroy the alkaline nature of sea water with the result that it rapidly becomes acidified to a point that prevents fishes from enjoying exuberant health. The chief indicative results are as follows:

The alkaline reserve is reduced.

The pH (H ion concentration) decreases.

The specific gravity increases.

Alkalinity of ocean water is largely caused by the presence of bases in the form of bicarbonates. It then becomes a problem to replace this by some substance that does not bring with it some inimical quantity. Without going into the series of chemical reactions involved, or the theoretical reasons, it was found that sodium bicarbonate  $\text{NaHCO}_3$  was the most available for this purpose for the following reasons.

1. It is readily soluble.

..

2. It adds a maximum of the bicarbonate radical with a minimum of other material. That other material, sodium, is already present in sea water in a high, but somewhat variable concentration. This treatment could be carried on for many years in a system such as we have without materially altering the fundamental nature of the sea water.

3. It is not costly.

The following important improved conditions are provided for:

1. The fishes live under much more natural conditions in this regard.



2. Sea water need not be renewed for long periods.

3. Cement work hardens under such sea water instead of breaking down as have our tanks in the past. The reservoir was of necessity relined last year due primarily to the effect of the acidity of the former sea water.

The best method of application is another part of this problem. When first applied it was simply added in appropriate amounts to bring the sea water back to within its natural range. Then a proportioning machine was devised which admits the solution a drop at a time, continually, in proportion to the rate of flow. This adds the bicarbonate as rapidly as the fishes add the biproducts of their metabolism and consequently *holds* the bicarbonate concentration at a level, very much as it remains in the open sea. This proportioning machine was originally devised for another purpose concerning fresh water conditions, but was found to be equally satisfactory for the present. Further work is being carried on along these same lines to effect improvements in other matters of "manufactured" environment for both salt and fresh waters.

*Ultraviolet Irradiations.* The study of the effects of ultraviolet irradiations was carried on into further detail both in collaboration with Dr. A. E. Hess of the College of Physicians and Surgeons, and Dr. W. T. Anderson, Jr., of the Hanovia Chemical Co. As with so much of this work, various factors enter that make accurate interpretation very difficult. One thing is clear, however, notwithstanding the overlaying factors, and that is that in the case of hibernating animals such as turtles, irradiations are of distinct advantage when given in the season that they would normally receive sunlight, and positively disadvantageous when administered during the season they would normally be hibernating. This is very suggestive of the marked periodicity in regard to other environmental factors that have been noted in lower animals. It points to the possible importance of regulating the manufactured climate for living specimens in accordance and in *time* with that to which they are native. These studies will be embodied in a later technical report.

*Trematodes:* In avoiding the bacterial eye disease encountered at Key West, Florida, last year by transferring operations to Nassau, Bahamas, we introduced a strong culture of the monogenetic trematode *Epidella melleni* Macallum which was reported as apparently coming

from some Pacific fish.<sup>2</sup> It clearly occurs on the Groupers brought from Nassau, Bahamas, in abundance. We are indebted to Dr. Horace Stunkard of New York University for identifying this organism. It soon established itself in serious numbers in the Aquarium. The use of a lower salinity checked its ravages, but failed to entirely remove it. It is interesting to note that the Yellow-finned Groupers, *Mycteroperca venenosa*, were apparently immune, but the parasites spread to the Hinds, the Sandfish, and the Snappers. Although the losses were surprisingly light, the lesions caused on some of the fishes were unsightly and took a long time to heal. With the introduction of the bicarbonate treatment of the water, the numbers of parasites fell off markedly which somewhat suggests that they flourish better in an acidified sea water, and may be principally a harbor organism. Individual treatment was effected by the application of solargentum in a six per cent solution.

*Strainers:* Experiments were carried out with rubber covered hatchery trays and Aquarium strainers. These were made by the Goodrich Rubber Company by their new Anode process of electroplating metal with dissolved latex rubber. The latter when thus covered with a soft rubber have proven themselves superior to any other strainer so far devised. They are not subject to corrosion and do not clog readily due to the particularly slippery surface presented by wet rubber, and in addition are practically indestructible.

*Visiting Students:* The following parties used facilities at the laboratory at various times during the year.

1. Dr. Homer Smith, Bellevue Medical College. Certain physiological determinations (Continued from last year.)
2. Dr. J. Nash, Bellevue Medical College. Kidney morphology.
3. Dr. A. L. Wahl, New York University. Marine ciliates.
4. Dr. Florence Wood, New York University. Certain photographic work.

#### PUBLICATIONS BY THE STAFF

C. H. TOWNSEND

*The Public Aquarium:* Its Construction, Equipment, and Management<sup>3</sup>. Bureau of Fisheries Document No. 1045. Dec. 1928. 47 Figs.

<sup>2</sup> Zoopathologica. Vol. I. No. 8. Sept. 30, 1927. pp. 291—300.

<sup>3</sup> Reissued in the Aquarium Nature Series.

*Records of Changes in Color Among Fishes*<sup>2</sup>: Zoologica Vol. IX, No. 9, Aug., 1929. pp. 1-58. 11 Figs. 27 colored plates.

C. M. BREDER, JR.

*Field Book of Marine Fishes of the Atlantic Coast from Labrador to Texas*. pp. 332. 8 colored plates. 8 half tones. 395 line cuts. G. P. Putnam's Sons, 1929.

*Field Observations on Flying Fishes, A Suggestion of Methods*. Zoologica. Vol. IX, No. 7, April 20. pp. 295-312. 6 Figs.

*Certain Effects in the Habits of Schooling Fishes*, as Based on the Observation of *Jenkinsia*. Novitates. No. 382 Nov. 4, 1929. pp. 1-5. 2 Figs.

*The Blue-spotted Sunfish*. A Contribution to the Life, History and Habits of *Enneacanthus* with Notes on Other Lepominae. C. M. Breder, Jr. and A. C. Redmond. Nov. 6, 1929. Zoologica Vol. IX. No. 10. pp. 379-401. 9 Figs.

#### PERSONNEL

Miss Ida M. Mellen resigned on May 1, 1929. She had been in the employ of the Aquarium since October 9, 1916, in various capacities.

Much needed stenographic and secretarial services are being rendered by Miss Jean Roddan. The Library is also under her supervision and various scientific drawings have been prepared by her for use in technical publications.

Mr. David Daley, an employee of the Aquarium since its establishment, passed away on November 22, 1929, after rendering twenty-seven years of faithful service.

#### ATTENDANCE AT THE NEW YORK AQUARIUM BY MONTHS—1929

January Visitors .....	97,496	Daily Average.....	3,145
February " .....	135,072	" .....	4,824
March " .....	183,004	" .....	5,903
April " .....	192,467	" .....	6,416
May " .....	235,385	" .....	7,593

<sup>2</sup> Reissued in the Aquarium Nature Series.

June	"	277,522	"	9,251
July	"	335,657	"	10,828
August	"	341,960	"	11,031
September	"	235,658	"	7,855
October	"	162,197	"	5,232
November	"	129,450	"	4,315
December	"	110,183	"	3,555
		<hr/>	<hr/>	
		2,436,051	79,948	

## SALINITY

Record of monthly mean temperatures and specific gravities and acidity of the water of New York Harbor at the Battery during the year 1929.<sup>4</sup>

	Temperature	Hydrogen ion Concentration (pH values)	Specific Gravity
January .....	50	7.5	1.014
February .....	41	7.5	1.013
March .....	42	7.3	1.011
April .....	47	7.2	1.008
May .....	53	7.3	1.007
June .....	61	7.3	1.012
July .....	68	7.4	1.013
August .....	69	7.4	1.014
September .....	69	7.6	1.015
October .....	63	7.4	1.014
November .....	57	7.4	1.014
December .....	48	7.4	1.014

<sup>4</sup> From daily observations at the New York Aquarium by Mr. Thomas Howley. Specific gravity observations were made with the samples of water brought to a temperature of 60° F. pH values read on a La Motte comparator. Not corrected for salt error, as being too small.



*Thirty-fourth Annual Report*



*Upper:* Nonsuch Laboratory. *Lower:* The Zoological Society's tug Gladisfen putting out to sea.





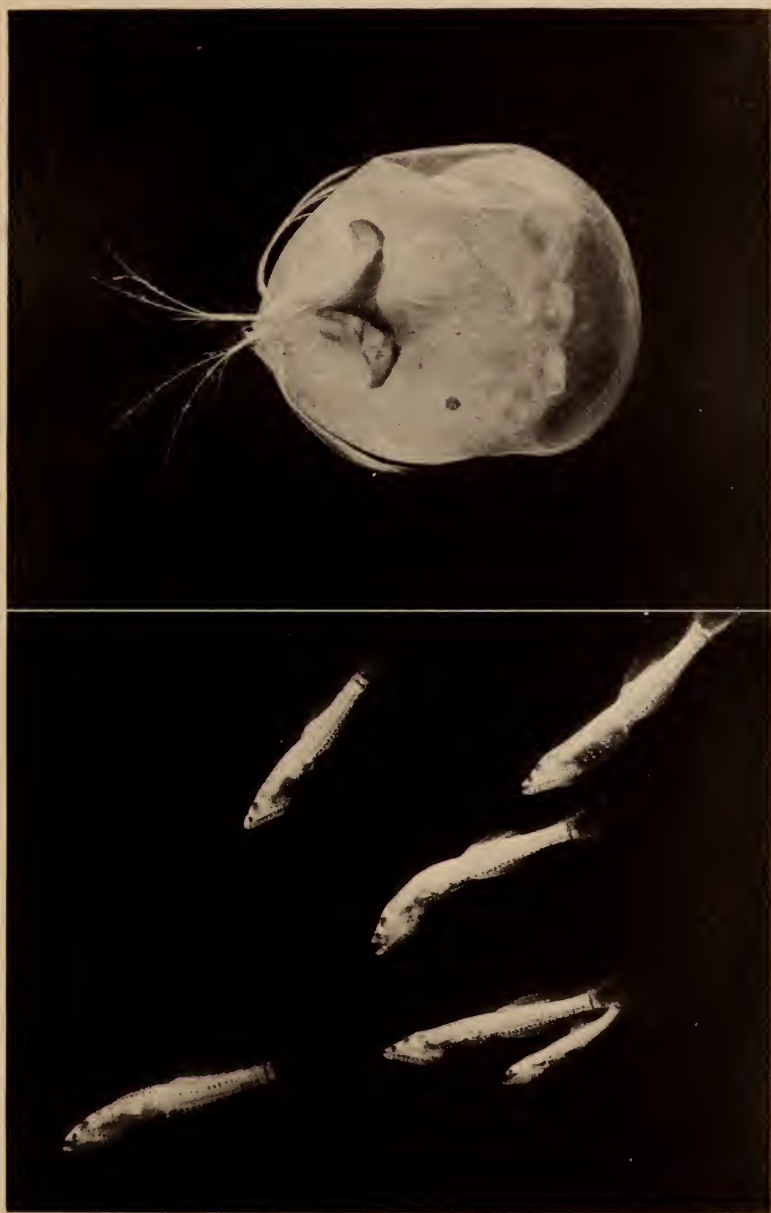
How *Astronothus*—Eater of Stars—gets its name; pursuing and devouring fish covered with star-like luminosity.



Two deep-sea dragons, one with luminous teeth and tentacle, and the other with a bulb on a long stalk.



A deep sea crustacean, as transparent as the water in which it lives, *Cystisoma neptunus*.



A giant globe-like crustacean. A school of luminous Cyclothones.



A giant-headed black angler of the deep sea. Cleaned and the skeleton dyed by Miss Hollister.





Great sea anemones blossom in submarine caves  
about the shores of Nonsuch.



*Upper: Newly hatched flying fish. Lower: A crab which plants and grows seaweed on itself.*

REPORT OF THE DIRECTOR  
DEPARTMENT OF TROPICAL RESEARCH

WILLIAM BEEBE, *Director*

*Regular Staff:* WILLIAM BEEBE, Director; JOHN TEE-VAN, General Assistant; WILLIAM MERRIAM, Field Technician; GLORIA HOLLISTER, Technical Associate; CHARLES J. FISH, Associate in Plankton; MARIE P. FISH, Associate in Larval Fish; ROBERT WHITELAW, Photographer; SVEN VON HALLBERG, Field Assistant; HELEN TEE-VAN, Artist; LLEWELLYN MILLER, Artist; E. M. BOSTELMAN, Artist; P. BOYDEN, Laboratory Assistant; ALICE WRIGHT, Laboratory Assistant.

*Research Staff on Arcturus and Kartabo Material:* WILLIAM K. GREGORY, CHARLES J. FISH, MARIE P. FISH, LEE BOONE, HENRY P. BIGELOW, A. L. TREADWELL, C. H. CURRAN and S. H. WILLIAMS.

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THE entire year of 1929 was occupied by the Bermuda Oceanographic Expedition—the Twelfth Expedition of the Department of Tropical Research.

In company with a staff of seven, the Director sailed for Bermuda on March 13, on the Furness Line S. S. "Bermuda," and returned to New York on October 22. As adumbrated in the Annual Report of last year, the twenty-five acre island of Nonsuch was at the disposal of the Expedition. The details of the seven months of occupancy are given in the Zoological Society Bulletin for March-April, 1930.

The results of the Bermuda Oceanographic Expedition far exceeded our expectations. The opportunity for study in a new field was so unmistakably valuable, that I at once laid plans for a period of two years' work, to continue through 1930.

*Buildings:* Within two weeks of our occupancy of Nonsuch we had transformed the buildings into a comfortable and efficient Marine Zoological Station. The two large buildings were practically new and in perfect condition. The three large rain water tanks were overflowing.

The eastern building was used as sleeping quarters and the large front veranda fronting on the open ocean as dining room. The kitchen and bakery at the rear retained their original functions. The western building was devoted to laboratory and storage purposes, and the western kitchen to chemical and photographic work. One-half of the porch was

screened from wind with celoglass and formed the best working laboratory we have ever had. The other half was devoted to aquariums.

*Domestic Arrangements:* The Government caretaker, his wife and brother were in charge of the marketing, cooking, and general service. Our food was as well prepared and in as great variety as that of any hotel in Bermuda.

*Transportation:* Our old Arcturus glass-bottomed boat was still serviceable. I purchased two rowboats for outboard motors, we had a thirty-five foot, cabin motor boat for transportation between Nonsuch and the mainland, and the one hundred and twenty-five foot tug "Gladisfen" was chartered for six months.

*Relations with the Government:* These could not possibly have been more cordial. We were given every assistance, even to having the wreck of a large tug raised in St. George's Harbor, towed across Castle Harbor and sunk near our landing-place, forming a perfect breakwater for protection in rough weather.

*Equipment:* We had an excellent outfit both for laboratory work, shallow water investigation, and deep-sea trawling. Our electric light plant furnished light for sixty-odd bulbs, a frigidaire, aquarium pumps, etc. A pumping engine at the landing-place furnished three hundred gallons of salt water an hour for our aquariums.

*Staff and Visitors:* Besides our regular staff, Dr. J. Newton Harvey, Dr. C. J. Fish and Mrs. Fish and a number of other scientists availed themselves of the chance to work on deep-sea organisms. During the course of the year we had a large number of distinguished visitors, many from our Zoological Society, among them Professor and Mrs. Henry Fairfield Osborn and Senator Frederic C. Walcott.

*Scientific Work:* We secured over two hundred species of shallow water fish, about two-thirds of the entire fish fauna of Bermuda, and gathered much material for life histories. The midwater depths—an area which we found most difficult to study—yielded many strange organisms. The deep-sea fish were taken from a restricted locality, five miles off shore, eight miles in diameter, and one-half mile to one mile below the surface. They were collected in the course of five hundred and twenty-eight hauls, and in abundance and specialization surpassed our utmost expectations.



In the laboratory six hundred photographs were developed, three hundred paintings of fish were made, and nearly six hundred cleared and stained preparations carried to completion.

Our total collection of fish numbers many thousands, of which a considerable number are new to science.

*Gifts:* Generous gifts were made of books, apparatus, outside salaries, and other donations for use on the expedition.

Among these were the following:

Edna Albert: Books, and extra travelling expenses.

W. E. Boeing: Additional salaries.

N. L. Britten: "Flora of Bermuda."

George Buckley: Instruments, books.

G. W. Cole: "Periodical Bibliography of Bermuda."

L. F. V. Drake & Gillmore Browne, Salt water pump.

George Eastman: 5,000 feet motion picture film.

F. G. Gosling: Oceanic Ichthyology, 2 vols.

E. L. Mark: Contributions of Bermuda Biological Station, 6 Vols.

W. F. Miller: Reduction of \$100 on diving helmet.

J. A. Roebling: 15,000 feet of trawling cable.

Serval Sales, Ltd.: Reduction on ice machine.

H. L. Satterlee: Binocular Telescope.

L. R. Smith: Pressure Gauge and two pressure tanks.

Anton Walbridge: Books, and additional salaries.

Ezra Winter: Hydrogen Ion set.

Carl Zeiss: Binocular Telescopic Magnifier with accompanying apparatus.

*Publications:* During the year three new translations of departmental volumes were published:

"*Galapagos: de Förtrollade Oarua*"—Stockholm.

"*Galapagos: Skildpadde-Oerne*"—Copenhagen.

"*Logbuch der Sonne*"—Berlin.

PUBLISHED CONTRIBUTIONS OF THE DEPARTMENT OF TROPICAL  
RESEARCH IN 1929 BROUGHT THE TOTAL UP TO 312.

305—Below the Top

William Beebe

McCall's Magazine, April



- 306—Wonderlands Beneath the Sea  
A. H. Armitage  
Travel, October, 1928
- 307—The Cicindellidae at Kartabo, British Guiana  
S. H. Williams  
Entomological News, June, 1929
- 308—A List of Prionid Beetles Taken at Kartabo  
S. H. Williams  
Annual Carnegie Museum, Vol. XXIX, No. 2
- 309—I Dived with Dr. Beebe  
Wells Lewis  
St. Nicholas, December
- 310—The Architectural Beauty of Fish  
William Beebe  
Zoological Society Bulletin, March-April
- 311—Fishing a Mile Down in the Hudson Gorge  
William Beebe  
Zoological Society Bulletin, March-April
- 312—Report of Director, Department of Tropical Research, for 1928  
William Beebe  
Zoological Society Annual Report

STATEMENT OF FUNDS PROVIDED BY  
THE VARIOUS CITY ADMINISTRATIONS FOR THE DEVELOPMENT AND  
MAINTENANCE OF THE ZOOLOGICAL PARK AND AQUARIUM  
FROM THE ORGANIZATION OF THE SOCIETY TO THE PRESENT  
1896 to 1930

MAYOR	COMPTROLLER	Year	MAINTENANCE		CORPORATE STOCK ISSUES	
			Park	Aquarium	Park	Aquarium
Robert A. Van Wyck 1898-1901	Bird S. Coler 1898-1901	1899	\$30,000.00	.....	.....	.....
		1900	40,000.00	.....	\$125,000.00	.....
		1901	65,000.00	.....	300,000.00	.....
		1902	85,000.00	\$ 5,959.97	250,000.00	.....
Seth Low 1902-1903	E. M. Grout 1902-1903	1903	104,965.00	46,453.68	250,000.00	\$30,000.00
		1904	104,965.00	46,439.72	275,000.00	40,000.00
G. B. McClellan 1904-1909	E. M. Grout 1904-1906 Herman A. Metz 1907-1909	1905	134,965.00	44,968.50	275,000.00	.....
		1906	144,965.00	44,987.71	250,000.00	.....
		1907	141,558.75	44,183.87	100,000.00	.....
		1908	154,627.00	44,157.27	65,000.00	.....
		1909	162,325.00	45,971.44	10,000.00	.....
		1910	167,632.00	45,974.86	89,500.00	.....
W. J. Gaynor 1910-1913 Ardolph L. Kline 1913	W. A. Prendergast 1910-1913	1911	174,632.00	47,560.21	155,000.00	.....
		1912	182,365.00	46,597.08	.....	.....
		1913	191,925.00	47,335.62	.....	29,100.00
		1914	200,000.00	46,995.53	.....	.....
J. P. Mitchel 1914-1917	W. A. Prendergast 1914-1917	1915	200,000.00	46,991.66	21,425.00	.....
		1916	197,074.35	46,996.43	.....	.....
		1917	199,560.00	46,903.61	.....	.....
		1918	207,586.00	48,630.71	.....	.....
J. F. Hylan 1918 to 1926	C. L. Craig 1918 to 1926	1919	190,000.00	45,000.00	5,000.00	.....
		1920	250,098.27	53,971.48	15,000.00	.....
		1921	276,951.01	65,203.12	.....	.....
		1922	264,618.05	63,341.26	.....	25,000.00
		1923	264,515.00	59,226.00	.....	86,000.00
		1924	264,514.49	58,309.00	.....	7,970.00
		1925	264,514.49	58,334.00	52,000.00	33,000.00
		1926	274,280.00	62,348.00	.....	1,500.00
James J. Walker 1927 to 1930	Charles W. Berry 1927 to 1930	1927	277,280.00	65,228.00	.....	.....
		1928	319,380.50	88,111.00	.....	.....
		1929	338,359.00	67,732.00	.....	.....
		1930	335,783.00	67,697.00	.....	65,000.00
Totals			\$6,209,438.91	\$1,501,608.73	\$2,237,925.00	\$317,570.00

*Note:* The appropriations for each year are granted by the Board of Estimate the previous year.



# SUMMARY OF EXPENDITURES, 1896 to 1929, NEW YORK ZOOLOGICAL SOCIETY AND THE CITY OF NEW YORK

ON ACCOUNT OF THE DEVELOPMENT AND MAINTENANCE OF THE ZOOLOGICAL PARK AND THE AQUARIUM, INCLUDING THE PURCHASE OF COLLECTIONS AND ALSO FOR THE SCIENTIFIC AND GENERAL PURPOSES OF THE SOCIETY.

Year	EXPENDED BY THE CITY OF NEW YORK			FROM GATE RECEIPTS		EXPENDED BY THE NEW YORK ZOOLOGICAL SOCIETY									
	Zoological Park Maintenance	Aquarium Maintenance	Bond Issues a/c—Park and Aquarium	Construction and Repairs	Purchase of Animals	Zoological Park Development	Aquarium Improvements	Zoological Park Maintenance	Aquarium Maintenance	Purchase of Animals	Aquarium Specimens	Heads and Horns Collection	Pension Fund Contribution	Library and Paintings	Scientific and General Purposes
1896	.....	.....	.....	.....	.....	\$ 4,213.63	.....	.....	.....	.....	.....	.....	.....	.....	.....
1897	.....	.....	.....	.....	.....	6,424.61	.....	.....	.....	.....	.....	.....	.....	.....	\$ 2,903.74
1898	.....	.....	.....	.....	.....	23,597.80	.....	\$ 1,292.16	.....	.....	.....	.....	.....	.....	4,339.20
1899	\$ 30,000.00	.....	.....	.....	.....	145,495.80	.....	7,038.61	.....	\$ 8,540.72	.....	.....	.....	\$ 102.76	3,476.02
1900	40,000.00	.....	\$125,000.00	.....	\$ 2,470.88	34,626.24	.....	6,189.33	.....	3,784.32	.....	.....	.....	88.13	5,601.78
1901	65,000.00	.....	300,000.00	.....	2,998.80	18,348.61	.....	3,714.37	.....	11,652.24	.....	.....	.....	462.20	7,597.16
1902	85,000.00	\$ 5,959.97	250,000.00	.....	4,256.50	5,908.69	.....	2,757.57	.....	20,983.07	.....	.....	.....	224.73	11,068.69
1903	104,965.00	46,453.68	280,000.00	.....	5,912.95	1,038.20	.....	.....	.....	20,361.62	.....	.....	.....	456.03	13,608.10
1904	104,965.00	46,439.72	315,000.00	.....	5,421.90	1,013.87	.....	1,894.37	.....	14,299.61	.....	.....	.....	887.16	15,072.84
1905	134,965.00	44,968.50	275,000.00	.....	6,849.00	144.00	.....	.....	.....	20,643.40	.....	.....	.....	418.10	18,773.90
1906	144,965.00	44,987.71	250,000.00	.....	8,132.35	778.48	.....	.....	.....	14,907.36	.....	.....	.....	319.16	17,961.67
1907	141,558.75	44,183.87	100,000.00	.....	8,248.65	370.72	.....	.....	.....	10,606.03	.....	\$ 892.71	.....	644.05	15,999.68
1908	154,627.00	44,157.27	65,000.00	.....	9,446.40	232.27	.....	.....	.....	4,231.61	.....	735.77	.....	1,313.87	14,693.92
1909	162,325.00	45,971.44	10,000.00	.....	9,992.75	2,860.92	.....	.....	.....	9,734.43	.....	7,340.82	.....	609.56	17,168.95
1910	167,632.00	45,974.86	89,500.00	.....	9,909.90	5,918.35	.....	.....	.....	4,339.25	\$ 973.90	2,036.39	.....	1,021.87	20,627.77
1911	174,632.00	47,560.21	155,000.00	.....	11,611.15	1,155.00	.....	.....	.....	6,659.89	1,191.80	1,615.38	.....	1,221.26	23,409.39
1912	182,365.00	46,597.08	.....	.....	11,838.40	40.00	.....	.....	.....	22,750.18	1,350.03	556.94	.....	1,031.55	32,109.01
1913	191,925.00	47,335.62	29,100.00	.....	12,404.25	218.45	.....	.....	.....	10,665.57	1,850.25	486.00	.....	732.97	32,543.88
1914	200,000.00	46,995.53	.....	\$ 9,237.81	3,831.15	2,175.13	.....	.....	.....	22,590.44	1,792.99	338.73	\$3,333.33	3,541.15	28,246.42
1915	200,000.00	46,991.66	21,425.00	9,175.86	.....	887.88	.....	.....	.....	13,629.41	1,466.64	1,024.91	8,000.00	4,181.24	31,398.08
1916	197,074.35	46,996.43	.....	9,599.81	.....	425.30	.....	.....	.....	13,511.12	2,193.57	1,031.47	8,000.00	1,555.12	38,339.99
1917	199,560.00	46,903.61	.....	3,488.31	7,118.90	1,450.05	.....	11,537.79	.....	10,175.70	1,637.15	18.12	8,000.00	2,869.20	44,262.48
1918	207,586.00	48,630.71	.....	2,642.70	.....	48.12	.....	1,580.00	\$ 93.61	8,425.92	960.19	18.61	8,000.00	3,559.85	34,125.49
1919	190,000.00	45,000.00	5,000.00	4,917.84	.....	.....	\$ 3,450.00	19,924.00	407.07	13,345.59	1,028.05	88.27	8,000.00	1,442.07	45,599.71
1920	250,098.27	53,971.48	15,000.00	17,438.28	.....	5,007.00	4,095.03	5,141.92	.....	32,761.08	1,654.02	263.86	8,000.00	2,517.64	51,018.20
1921	276,951.01	65,203.12	86,000.00	25,463.77	.....	88,734.92	53,635.02	6,068.17	976.47	27,442.59	2,165.05	2,661.67	8,000.00	4,698.24	55,684.15
1922	264,618.05	63,341.26	25,000.00	17,060.00	.....	50,888.65	16,153.03	10,074.88	3,326.28	43,047.41	3,057.91	7,191.93	8,000.00	1,765.78	58,797.69
1923	262,724.50	57,166.63	.....	18,388.20	.....	5,000.00	.....	19,019.09	3,319.44	24,456.20	1,432.89	1,550.69	8,000.00	3,391.96	58,404.21
1924	262,471.01	57,319.20	7,970.00	16,806.00	.....	.....	32,272.21	28,956.34	8,097.14	11,560.62	2,013.88	942.34	8,000.00	1,938.77	76,559.41
1925	262,808.69	58,324.89	85,000.00	19,974.05	.....	.....	.....	38,793.01	4,380.45	20,843.01	2,609.55	667.78	8,000.00	1,174.24	242,753.89
1926	273,815.12	62,266.20	1,500.00	20,102.90	.....	.....	.....	45,467.10	7,261.21	23,460.04	2,847.35	306.32	8,000.00	562.40	87,915.27
1927	276,855.19	65,216.89	.....	18,960.48	.....	.....	1,395.00	61,968.22	11,656.97	27,545.92	2,861.55	135.00	8,000.00	2,477.37	82,807.54
1928	319,380.50	88,109.12	.....	18,106.25	.....	2,480.06	.....	52,676.35	10,776.84	21,001.88	2,912.97	107.89	8,000.00	1,168.15	88,794.37
1929	338,359.00	71,229.35	65,000.00	21,957.80	.....	13,095.54	984.85	59,673.38	13,670.81	23,783.69	3,572.14	669.48	8,000.00	4,029.63	122,774.78
Add premium on Bonds, less Balances reverting to the City															35,559.89
Expended in connection with preparation and publication of "A Monograph of the Pheasants" — gift of Col. Anthony R. Kuser															194,100.00
Expended in connection with Galapagos Expedition — gift of Harrison Williams															98,670.00
Totals..															\$5,867,226.44   \$1,434,256.01   \$2,591,054.89   \$233,320.06   \$120,443.93   \$422,578.29   \$111,985.14   \$383,766.66   \$63,966.29   \$521,739.92   \$39,571.88   \$30,681.08   \$123,333.33   \$50,406.21   \$1,697,207.38
															\$9,892,537.34                      \$353,763.99                      \$3,455,236.18



SUMMARY OF EXPENDITURES, 1896 to 1929, NEW YORK ZOOLOGICAL SOCIETY AND THE CITY OF NEW YORK

ON ACCOUNT OF THE DEVELOPMENT AND MAINTENANCE OF THE ZOOLOGICAL PARK AND THE AQUARIUM, INCLUDING THE PURCHASE OF COLLECTIONS AND ALSO FOR THE SCIENTIFIC AND GENERAL PURPOSES OF THE SOCIETY.

Year	EXPENDED BY THE CITY OF NEW YORK			FROM GATE RECEIPTS		EXPENDED BY THE NEW YORK ZOOLOGICAL SOCIETY										
	Zoological Park Maintenance	Aquarium Maintenance	Bond Issues a/c—Park and Aquarium	Construction and Repairs	Purchase of Animals	Zoological Park Development	Aquarium Improvements	Zoological Park Maintenance	Aquarium Maintenance	Purchase of Animals	Aquarium Specimens	Heads and Horns Collection	Pension Fund Contribution	Library and Paintings	Scientific and General Purposes	
1896	.....	.....	.....	.....	.....	\$ 4,213.63	.....	.....	.....	.....	.....	.....	.....	.....	.....	
1897	.....	.....	.....	.....	.....	6,424.61	.....	.....	.....	.....	.....	.....	.....	.....	\$ 2,903.74	
1898	.....	.....	.....	.....	.....	23,597.80	.....	\$ 1,292.16	.....	.....	.....	.....	.....	.....	4,339.20	
1899	\$ 30,000.00	.....	.....	.....	.....	145,495.80	.....	7,038.61	.....	\$ 8,540.72	.....	.....	.....	\$ 102.76	.....	
1900	40,000.00	.....	\$125,000.00	.....	\$ 2,470.88	34,626.24	.....	6,189.33	.....	3,784.32	.....	.....	.....	88.13	5,601.78	
1901	65,000.00	.....	300,000.00	.....	2,998.80	18,348.61	.....	3,714.37	.....	11,652.24	.....	.....	.....	462.20	7,597.16	
1902	85,000.00	\$ 5,959.97	250,000.00	.....	4,256.50	5,908.69	.....	2,757.57	.....	20,983.07	.....	.....	.....	224.73	11,068.69	
1903	104,965.00	46,453.68	280,000.00	.....	5,912.95	1,038.20	.....	.....	.....	20,361.62	.....	.....	.....	456.03	13,608.10	
1904	104,965.00	46,439.72	315,000.00	.....	5,421.90	1,013.87	.....	1,894.37	.....	14,299.61	.....	.....	.....	887.16	15,072.84	
1905	134,965.00	44,968.50	275,000.00	.....	6,849.00	144.00	.....	.....	.....	20,643.40	.....	.....	.....	418.10	18,773.90	
1906	144,965.00	44,987.71	250,000.00	.....	8,132.35	778.48	.....	.....	.....	14,907.36	.....	.....	.....	319.16	17,961.67	
1907	141,558.75	44,183.87	100,000.00	.....	8,248.65	370.72	.....	.....	.....	10,606.03	.....	\$ 892.71	.....	644.05	15,999.68	
1908	154,627.00	44,157.27	65,000.00	.....	9,446.40	232.27	.....	.....	.....	4,231.61	.....	735.77	.....	1,313.87	14,693.92	
1909	162,325.00	45,971.44	10,000.00	.....	9,992.75	2,860.92	.....	.....	.....	9,734.43	.....	7,340.82	.....	609.56	17,168.95	
1910	167,632.00	45,974.86	89,500.00	.....	9,909.90	5,918.35	.....	.....	.....	4,339.25	\$ 973.90	2,036.39	.....	1,021.87	20,627.77	
1911	174,632.00	47,560.21	155,000.00	.....	11,611.15	1,155.00	.....	.....	.....	6,659.89	1,191.80	1,615.38	.....	1,221.26	23,409.39	
1912	182,365.00	46,597.08	.....	.....	11,838.40	40.00	.....	.....	.....	22,750.18	1,350.03	556.94	.....	1,031.55	32,109.01	
1913	191,925.00	47,335.62	29,100.00	.....	12,404.25	218.45	.....	.....	.....	10,665.57	1,850.25	486.00	.....	732.97	32,543.88	
1914	200,000.00	46,995.53	.....	\$ 9,237.81	3,831.15	2,175.13	.....	.....	.....	22,590.44	1,792.99	338.73	\$3,333.33	3,541.15	28,246.42	
1915	200,000.00	46,991.66	21,425.00	9,175.86	.....	887.88	.....	.....	.....	13,629.41	1,466.64	1,024.91	8,000.00	4,181.24	31,398.08	
1916	197,074.35	46,996.43	.....	9,599.81	.....	425.30	.....	.....	.....	13,511.12	2,193.57	1,031.47	8,000.00	1,555.12	38,339.99	
1917	199,560.00	46,903.61	.....	3,488.31	7,118.90	1,450.05	.....	11,537.79	.....	10,175.70	1,637.15	18.12	8,000.00	2,869.20	44,262.48	
1918	207,586.00	48,630.71	.....	2,642.70	.....	48.12	.....	1,580.00	\$ 93.61	8,425.92	960.19	18.61	8,000.00	3,559.85	34,125.49	
1919	190,000.00	45,000.00	5,000.00	4,917.84	.....	.....	\$ 3,450.00	19,924.00	407.07	13,345.59	1,028.05	88.27	8,000.00	1,442.07	45,599.71	
1920	250,098.27	53,971.48	15,000.00	17,438.28	.....	5,007.00	4,095.03	5,141.92	.....	32,761.08	1,654.02	263.86	8,000.00	2,517.64	51,018.20	
1921	276,951.01	65,203.12	86,000.00	25,463.77	.....	88,734.92	53,635.02	6,068.17	976.47	27,442.59	2,165.05	2,661.67	8,000.00	4,698.24	55,684.15	
1922	264,618.05	63,341.26	25,000.00	17,060.00	.....	50,888.65	16,153.03	10,074.88	3,326.28	43,047.41	3,057.91	7,191.93	8,000.00	1,765.78	58,797.69	
1923	262,724.50	57,166.63	.....	18,388.20	.....	5,000.00	.....	19,019.09	3,319.44	24,456.20	1,432.89	1,550.69	8,000.00	3,391.96	58,404.21	
1924	262,471.01	57,319.20	7,970.00	16,806.00	.....	.....	32,272.21	28,956.34	8,097.14	11,560.62	2,013.88	942.34	8,000.00	1,938.77	76,559.41	
1925	262,808.69	58,324.89	85,000.00	19,974.05	.....	.....	.....	38,793.01	4,380.45	20,843.01	2,609.55	667.78	8,000.00	1,174.24	242,753.89	
1926	273,815.12	62,266.20	1,500.00	20,102.90	.....	.....	.....	45,467.10	7,261.21	23,460.04	2,847.35	306.32	8,000.00	562.40	87,915.27	
1927	276,855.19	65,216.89	.....	18,960.48	.....	.....	1,395.00	61,968.22	11,656.97	27,545.92	2,861.55	135.00	8,000.00	2,477.37	82,807.54	
1928	319,380.50	88,109.12	.....	18,106.25	.....	2,480.06	.....	52,676.35	10,776.84	21,001.88	2,912.97	107.89	8,000.00	1,168.15	88,794.37	
1929	338,359.00	71,229.35	65,000.00	21,957.80	.....	13,095.54	984.85	59,673.38	13,670.81	23,783.69	3,572.14	669.48	8,000.00	4,029.63	122,774.78	
Add premium on Bonds, less																
Balances reverting to the City			35,559.89													
Expended in connection with preparation and publication of "A Monograph of the Pheasants" — gift of Col. Anthony R. Kuser															194,100.00	
Expended in connection with Galapagos Expedition — gift of Harrison Williams															98,670.00	
Totals..  \$5,867,226.44  \$1,434,256.01  \$2,591,054.89  \$233,320.06  \$120,443.93  \$422,578.29  \$111,985.14  \$383,766.66  \$63,966.29  \$521,739.92  \$39,571.88  \$30,681.08  \$123,333.33  \$50,406.21  \$1,697,207.38																
			\$9,892,537.34				\$353,763.99									\$3,455,236.18





## FINANCES

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The financial administration of the Zoological Society is under the Treasurer, the Executive Committee and the Finance Committee.

The Board of Estimate and Apportionment of the City of New York appropriated for the year 1929 a total of \$409,591.00 toward the maintenance of the Zoological Park and the Aquarium. Balances of funds from previous appropriations for alterations and repairs at the Aquarium were available and expenditures were made against them during the year, all of which are accounted for in this report.

During the year 1929 from income, contributions and publication funds the Society expended a grand total of \$233,233.76. The expenditures in the Improvement and Repair Account were \$34,643.34.

For the continuation of its work, of great public benefit in the Park and Aquarium, the Society requires the immediate addition of \$2,000,000 to its general endowment, and desires the constant attention of its members and friends to the needs of its Library, extension of its scientific research work, Heads and Horns Collection, Publications and Gallery of Animal Paintings.

Communications or contributions to the Endowment Fund should be addressed either to the

Secretary of the New York Zoological Society, 101 Park Avenue, or to the

Treasurer of the New York Zoological Society, care of City Bank Farmers Trust Company, 43 Exchange Place.

The form of gift or bequest is printed on page XI of this report.

# Treasurer's Reports

FOR THE YEAR ENDING DECEMBER 31, 1929

CORNELIUS R. AGNEW, *Treasurer*

BALANCE SHEET, DECEMBER 31, 1929

ASSETS			
Cash:			
At City Bank Farmers Trust Company .....	\$	76,036.84	
On hand .....		100.00	
Accounts Receivable:			\$ 76,136.84
Due from City of New York on account of:			
1929 Park Maintenance Appropriation.....	\$	49,014.71	
1929 Aquarium Maintenance Appropriation .....		10,903.26	59,917.97
Investments—Stocks and Bonds (at Cost or Bequest Values) .....			3,722,729.18
			<u>\$3,858,783.99</u>
LIABILITIES			
Accounts Payable:			
For Park Maintenance .....		16,745.00	
For Aquarium Maintenance .....		4,411.44	\$21,156.44
Endowment Funds:			
General Endowment .....	\$	698,273.81	
Anna M. Harkness Endowment.....		1,040,297.50	
Rockefeller Endowment .....		1,003,015.25	
Sage Endowment .....		697,556.13	
George F. Baker Endowment .....		102,600.25	
Jacob H. Schiff Endowment .....		50,000.00	
Ladies' Auxiliary Endowment.....		5,680.00	\$3,597,422.94
Special Endowment Funds:			
Cadwalader Animal Endowment.....	\$22,839.88		
Stokes Bird Endowment.....	5,215.00		
Florence Lydig Sturgis Endowment....	12,866.81		
Carnegie Pension Endowment.....	100,066.25	\$	140,982.94
Special Funds:			
Animal Account .....	\$28,366.31		
Art Gallery Account.....	4,644.19		
Improvement and Repair Account.....	8,250.03		
Auxiliary Pension Account.....	52,363.15	\$	93,623.68
Scientific and Research Funds:			
Publication Account.....	\$	921.14	
Tropical Research Account.....		1,040.08	
Bermuda Expedition Account .....		475.33	
Library Account.....		514.86	
Heads and Horns Collection Account .....		2,201.86	
Special Publication Account.....		439.72	\$ 5,592.99
			<u>\$3,858,783.99</u>

## GROUP I

*Maintenance Fund*

## ZOOLOGICAL PARK ACCOUNT

## INCOME

Received from the City of New York on account of Park Maintenance Appropriation of \$338,359.00 for the year 1929.....	\$269,731.29
Due from the City on Account of Park Maintenance Appropriation.....	49,014.71
Shortage in City Maintenance Appropriation for 1929 (Paid by the New York Zoological Society).....	59,673.38
	<hr/>
	\$378,419.38
Portion of Park Maintenance Appropriation for Reconstruction of Flying Cage to be disbursed through Department of Parks.....	19,613.00
	<hr/>
	\$398,032.38

## EXPENDITURES

*Personal Service:*

General Administration .....	\$31,428.19	
Maintenance of Buildings and Care of Collections.....	98,686.43	
Maintenance and Care of Grounds.....	86,995.12	
Salaries in excess of City Appropriation.....	46,674.10	\$263,783.84

*Supplies:*

Food for Animals.....	\$43,875.89	
Fuel .....	14,323.38	
Fuel Oil .....	414.78	
Office Supplies .....	694.83	
Stationery and Printing .....	820.16	
Drugs and Medicines .....	259.09	
Medical and Surgical Supplies .....	141.89	
Disinfectants .....	283.97	
Janitors' Supplies .....	144.76	
Motor Vehicle Supplies .....	392.34	
Ice .....	53.90	
Lubricating Oils .....	14.44	
Nursery Stock and Seeds .....	184.20	
Nursery Supplies .....	67.75	
Miscellaneous Supplies .....	1,849.65	\$63,521.03

*Equipment:*

Uniforms and Wearing Apparel .....	\$2,556.62	
Office Equipment .....	721.40	
Motor Vehicles and Equipment .....	658.23	
Awnings and Shades .....	2.00	
Janitors' Equipment .....	775.46	
Mats and Floor Coverings .....	11.10	
Painters' Equipment .....	259.45	
Rubber Hose .....	197.25	
Tools and Machinery .....	3,067.69	
Miscellaneous Equipment .....	1,173.45	\$9,422.65

*Materials:*

Motor Vehicle Materials .....	\$145.95	
Bolts, Nails and Hardware .....	524.25	
Electrical Materials .....	73.69	
Fencing and Netting .....	7,238.47	
Furnace Materials .....	2,735.23	
Glaziers' Materials .....	305.81	
Lumber .....	3,567.92	
Paints and Oils.....	2,995.04	
Plumbing Materials .....	1,685.46	
Sand, Cement and Brick.....	1,406.51	
Steel and Iron.....	2,482.57	
Miscellaneous Materials .....	3,688.90	\$26,849.80

*Contract or Open Order Service:*

Apparatus and Machinery Repairs .....	\$ 176.45	
Harness and Vehicle Repairs.....	29.20	
Painting Labels .....	50.00	
Plumbing Repairs .....	2,272.55	
Sanitary Service .....	130.00	
Miscellaneous Repairs .....	5,414.43	
Motor Vehicle Repairs.....	74.05	
Electric Service .....	3,698.91	
Gas Service .....	66.60	
Telephone Service .....	1,608.00	
Expressage and Deliveries.....	563.38	\$14,083.57

*Contingencies:*

Medical Attendance, Employees.....	\$ 92.00	
Medical Attendance, Animals.....	50.00	
Miscellaneous Expenses .....	616.49	\$ 758.49

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\$378,419.38

Portion of Park Maintenance Appropriation for reconstruction of Flying Cage to be disbursed through Department of Parks.....

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19,613.00

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\$398,032.38



## GROUP I

**Maintenance Fund**  
**AQUARIUM ACCOUNT**

## INCOME

Received from the City of New York on account Aquarium Maintenance Appropriation of \$71,232.00 for the year 1929.....	\$60,326.09
Due from the City on account of Aquarium Maintenance Appropriation .....	10,903.26
Unexpended balance reverting to the City.....	2.65
Shortage in City Maintenance Appropriation for 1929 (Paid by the New York Zoological Society).....	13,670.81
	\$84,902.81

## EXPENDITURES

Salaries and Wages.....	\$52,840.93
Salaries in excess of City Appropriation.....	13,670.81
Forage and Veterinary Supplies.....	3,911.40
Fuel Supplies .....	3,432.86
Office Supplies .....	199.23
Laundry, Cleaning and Disinfecting Supplies.....	169.25
Refrigerating Supplies .....	189.93
General Plant Supplies .....	629.39
Wearing Apparel .....	162.85
Office Equipment .....	397.80
General Plant Equipment .....	2,466.25
General Plant Materials .....	2,578.66
Repairs and Replacements .....	3,310.36
Telephone Service .....	269.81
Expressage and Cartage .....	451.21
Contingencies .....	219.42
Total .....	\$84,900.16
Unexpended balance reverting to the City.....	2.65
	\$84,902.81

M. C. FENSTEMAKER, *Secretary*.

## GROUP II

**Endowment Fund**

## GENERAL ENDOWMENT ACCOUNT

Funds as of December 31, 1928:

Cash in Bank .....	\$ 20,496.43	
Investments at Cost .....	616,459.48	\$636,955.91

## RECEIPTS

Estate of James B. Ford.....	\$ 25,000.00	
Estate of Percy R. Pyne.....	25,000.00	
John A. Roebbling .....	5,000.00	
Estate of Charles E. Rhinelander.....	1,000.00	
Mr. and Mrs. Giles Taintor.....	100.00	
Life Memberships .....	1,130.00	
Profit on Sale and Redemption of Bonds.....	9,767.90	66,997.90
		<hr/>
		\$703,953.81

## EXPENDITURES

Ladies Auxiliary Endowment Account (Transfer).....		\$ 5,680.00
Funds as of December 31, 1929:		
Investments at cost (for details see list of securities) .....	\$694,257.38	
Uninvested balance .....	4,016.43	698,273.81
		<hr/>
		\$703,953.81

## ANNA M. HARKNESS ENDOWMENT ACCOUNT

Funds as of December 31, 1928:

Cash in Bank .....	\$ 152,308.75	
Investments at cost.....	887,988.75	\$1,040,297.50

Funds as of December 31, 1929:

Investments at cost (for details see list of securities) .....	\$1,039,763.75	
Uninvested balance .....	533.75	\$1,040,297.50

## ROCKEFELLER ENDOWMENT ACCOUNT

Funds as of December 31, 1928:

Cash in Bank .....	\$ 435.87	
Investments at cost .....	998,797.66	\$ 999,233.53

## RECEIPTS

Profit on Bonds Called .....		3,781.72
		<hr/>
		\$1,003,015.25
Funds as of December 31, 1929:		
Investments at cost (for details see list of securities) .....	\$1,002,866.88	
Uninvested balance .....	148.37	\$1,003,015.25
		<hr/>
		\$1,003,015.25

## GROUP II

## Endowment Fund

## SAGE ENDOWMENT ACCOUNT

## Funds as of December 31, 1928:

Cash in Bank.....	\$8,024.52	
Investments at cost.....	684,645.05	\$692,669.57

## RECEIPTS

Estate of Margaret Olivia Sage .....	\$52.64	
Profit on Bonds Called .....	4,833.92	4,886.56

## Funds as of December 31, 1929:

Investments at cost (for details see list of securities)	\$696,243.46	
Uninvested balance .....	1,312.67	\$697,556.13
		\$697,556.13

## GEORGE F. BAKER ENDOWMENT ACCOUNT

## Funds as of December 31, 1928:

Cash in Bank .....	\$87.75	
Investments at cost .....	99,912.25	\$100,000.00

## RECEIPTS

Profit on Bonds Called .....		2,600.25
		\$102,600.25

## Funds as of December 31, 1929:

Investments at cost (for details see list of securities)	\$100,012.50	
Uninvested balance .....	2,587.75	\$102,600.25
		\$102,600.25

## JACOB H. SCHIFF ENDOWMENT ACCOUNT

## Funds as of December 31, 1928:

Cash in Bank .....	\$525.00	
Investments at cost .....	49,475.00	\$50,000.00

## Funds as of December 31, 1929:

Investments at cost (for details see list of securities)	\$49,475.00	
Uninvested balance .....	525.00	\$50,000.00

## LADIES' AUXILIARY ENDOWMENT ACCOUNT

## RECEIPTS

Transfer from General Endowment Account.....		\$5,680.00
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## Funds as of December 31, 1929:

Investments at cost (for details see list of securities)	\$5,000.00	
Uninvested balance .....	680.00	\$5,680.00

## GROUP III

**Special Endowment Fund****CADWALADER ANIMAL ENDOWMENT ACCOUNT**

## Funds as of December 31, 1928:

Cash in Bank .....	\$3,839.88	
Investments at cost .....	20,000.00	\$23,839.88

## RECEIPTS

Interest on Investments .....		1,000.00
		<u>\$24,839.88</u>

## EXPENDITURES

Purchase of Muskoxen .....		2,000.00
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## Funds as of December 31, 1929:

Investments at cost (for details see list of securities) .....	\$20,000.00	
Unexpended balance .....	2,839.88	22,839.88
		<u>\$24,839.88</u>

**FLORENCE LYDIG STURGIS ACCOUNT**

## Funds as of December 31, 1928:

Cash in Bank .....	\$2,329.31	
Investments at cost .....	9,987.50	\$12,316.81

## RECEIPTS

Interest on Investment .....		550.00
		<u>\$12,866.81</u>

## Funds as of December 31, 1929:

Investments at cost (for details see list of securities) .....	\$9,987.50	
Unexpended balance .....	2,879.31	\$12,866.81
		<u>\$12,866.81</u>

**STOKES BIRD ENDOWMENT ACCOUNT**

## Funds as of December 31, 1928:

Cash in Bank .....	\$1,208.54	
Investments at cost .....	5,056.46	\$6,265.00

## RECEIPTS

Income on Investments .....		200.00
		<u>\$6,465.00</u>

## EXPENDITURES

Conservation of Birds .....		\$1,250.00
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## Funds as of December 31, 1929:

Investments at cost (for details see list of securities) .....	\$5,056.46	
Unexpended balance .....	158.54	5,215.00
		<u>\$6,465.00</u>

## GROUP III

*Special Endowment Fund*

## CARNEGIE PENSION ENDOWMENT ACCOUNT

Funds as of December 31, 1928:

Investments at cost .....		\$100,066.25
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Funds as of December 31, 1929:

Investments at cost (for details see list of securities)		\$100,066.25
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## GROUP IV

*Special Fund*

## ANIMAL ACCOUNT

Unexpended balance as of December 31, 1928:

Cash in Bank .....	\$18,043.90	
Cash on Hand .....	100.00	\$18,143.90

## RECEIPTS

Junior Auxiliary for Purchase of Banteng .....		\$1,250.00
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Receipts from Park:

Privilege Department (1929 receipts) .....	\$30,000.00	
Sale of Animals .....	575.00	
Checking .....	28.40	
Miscellaneous receipts .....	152.70	30,756.10
		<u>\$50,150.00</u>

## EXPENDITURES

Purchase of Animals:

Mammals .....	\$12,029.50	
Birds .....	7,708.50	
Reptiles .....	1,268.90	
Insects .....	29.00	\$21,035.90

Express and Other Charges .....	\$361.96	
Traveling and Other Expenses .....	385.83	747.79

Unexpended balance as of December 31, 1929:

Cash on Hand .....	\$100.00	
Cash in Bank .....	28,266.31	28,366.31
		<u>\$50,150.00</u>



## GROUP IV

*Special Fund*

## ART GALLERY ACCOUNT

Unexpended balance as of December 31, 1928:.....		\$7,650.44
		<hr/>
	EXPENDITURES	\$7,650.44
Oil Paintings Purchased .....	\$3,000.00	
Miscellaneous Expenses .....	6.25	3,006.25
	<hr/>	
Unexpended balance as of December 31, 1929.....		\$4,644.19
		<hr/>
		\$7,650.44

## IMPROVEMENT AND REPAIR ACCOUNT

Unexpended balance as of December 31, 1928.....		\$22,869.92
		<hr/>
	RECEIPTS	
Gate Receipts .....		20,023.45
		<hr/>
		\$42,893.37
	EXPENDITURES	
Boiler Repairs .....	\$2,349.00	
Cage Repairs .....	754.90	
Concrete Work .....	1,600.20	
Fence Repairs .....	4,457.17	
Gardening .....	947.70	
Guard Wires .....	1,118.50	
Monkey House Repairs .....	11,300.07	
Painting .....	1,599.00	
Small Mammal House Repairs .....	912.90	
Vita Glass .....	472.57	
Walk Repairs .....	4,563.73	
Miscellaneous Repairs .....	4,567.60	\$34,643.34
	<hr/>	
Unexpended balance as of December 31, 1929.....		8,250.03
		<hr/>
		\$42,893.37

## AUXILIARY PENSION ACCOUNT

	RECEIPTS	
General Income Fund (Transfer).....		\$56,652.31
		<hr/>
		\$56,652.31
	EXPENDITURES	
Auxiliary Pensions .....		\$4,289.16
Unexpended balance as of December 31, 1929.....		52,363.15
		<hr/>
		\$56,652.31

## GROUP V

## General Income Fund

Unexpended balance as of December 31, 1928.....		\$4,820.58
RECEIPTS		
Income from General Endowment .....	\$31,070.15	
Income from Harkness Endowment.....	56,637.58	
Income from Rockefeller Endowment .....	48,102.31	
Income from Sage Endowment .....	39,301.07	
Income from Baker Endowment .....	4,873.23	
Income from Schiff Endowment .....	2,412.50	
Interest on Bank Balances .....	2,913.04	185,309.88
<hr/>		
Annual Dues .....	\$19,820.00	
Sustaining Dues .....	120.00	19,940.00
<hr/>		
American Museum of Natural History.....	\$400.00	
Miss Julia Wray .....	75.00	
G. R. Gingrass .....	2.00	
Anonymous .....	15.00	
New Guinea Expedition Account (Transfer).....	29.37	521.37
<hr/>		
		\$210,591.83
EXPENDITURES		
General Office Expenses .....	\$7,359.76	
Stationery, Printing & Office Supplies.....	2,627.01	
Salary of Chairman .....	7,000.00	
Salary of Secretary .....	3,500.00	\$20,486.77
<hr/>		
Treasurer's Office Expenses .....	\$3,700.00	
Audit of Accounts .....	1,000.00	4,700.00
<hr/>		
Annual Report .....	\$5,785.92	
Annual Meeting Expenses .....	1,002.00	
Reception Expenses .....	1,595.32	
Membership Committee Expenses.....	1,211.75	9,594.99
<hr/>		
Zoological Park Maintenance Salaries in excess of City Appropriation (transfer) .....	\$46,674.10	
Zoological Park Maintenance Supply Deficit (transfer)....	12,999.28	
Zoological Park Insurance .....	3,766.91	
Zoological Park Engineer's Services.....	410.00	63,850.29
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Educational Activities .....	\$1,134.98	
Conservation Activities .....	2,550.00	
Research Scholarships .....	1,323.03	5,008.06
<hr/>		
Aquarium Maintenance Salaries in excess of City Approp- riation (transfer) .....	\$13,670.81	
Aquarium Specimens .....	3,572.14	
Aquarium Insurance .....	744.58	
Aquarium Expenses .....	226.49	
Aquarium Engineer's Services .....	984.85	
Galapagos Tortoise Expenses .....	1,267.75	20,466.62
<hr/>		

## GROUP V

**General Income Fund**

Aid to Employees .....	\$1,624.20	
Pension Fund Income Account (transfer) .....	3,665.00	
Auxiliary Pension Account (transfer) .....	56,652.31	61,941.51
Publication Account (transfer) .....	\$20,000.00	
Library Account (transfer) .....	1,500.00	21,500.00
Miscellaneous Expenses .....		3,043.59
		<u>\$110,591.83</u>

## GROUP VI

**Scientific and Research Fund****PUBLICATION ACCOUNT**

Unexpended balance as of December 31, 1928..... \$1,928.82

## RECEIPTS

General Income Fund (transfer) .....	\$20,000.00	
Sale of "Our Vanishing Wild Life" .....	15.00	
Sale of "Tropical Wild Life" .....	106.07	
Sale of "Zoopathologica" .....	5.80	20,126.87
		<u>\$22,055.69</u>

## EXPENDITURES

Bulletin .....	\$16,997.72	
Zoologica .....	1,966.34	
Photographs and Slides .....	2,170.49	\$21,134.55
Unexpended balance as of December 31, 1929.....		921.14
		<u>\$22,055.69</u>

**SPECIAL PUBLICATION ACCOUNT**

Unexpended balance as of December 31, 1928..... \$2,520.27

## EXPENDITURES

Tropical Research Publications .....	\$2,080.55	
Unexpended balance as of December 31, 1929.....	439.72	
		<u>\$2,520.27</u>

## GROUP VI

**Scientific and Research Fund****TROPICAL RESEARCH ACCOUNT**

RECEIPTS		
Coleman du Pont.....	\$2,500.00	
Marshall Field .....	2,000.00	
George F. Baker .....	1,000.00	
Edward S. Harkness .....	1,000.00	
George W. Pratt .....	1,000.00	
Robert S. Brewster .....	500.00	
Lewis R. Morris .....	500.00	\$8,500.00
		<hr/>
		\$8,500.00
EXPENDITURES		
Salaries .....	\$7,459.92	
Unexpended balance as of December 31, 1929.....	1,040.08	\$8,500.00
		<hr/>
		\$8,500.00

**1929 BERMUDA EXPEDITION ACCOUNT**

RECEIPTS		
Mortimer L. Schiff .....	\$15,000.00	
Harrison Williams .....	15,000.00	
Burt Massee .....	2,000.00	
F. C. Walcott .....	1,000.00	\$33,000.00
		<hr/>
		\$33,000.00
EXPENDITURES		
Laboratory Supplies .....	\$3,407.21	
Laboratory Expenses .....	64.71	
Subsistence .....	2,946.02	
Stationery and Office Supplies .....	30.68	
Traveling and other Expenses .....	1,889.14	
Rental of Salving Tug.....	11,000.00	
Rental of Motor Boats .....	3,458.07	
Miscellaneous Supplies .....	4,607.12	
Miscellaneous Expenses .....	5,121.72	\$32,524.67
		<hr/>
Unexpended Balance as of December 31, 1929.....		475.33
		<hr/>
		\$33,000.00

*Note:* In addition to the expenditures by the Zoological Society as shown above, Mr. Beebe reports that he received and expended for the Bermuda Expedition an additional amount of \$3,500.00 from the following contributors:

Judge Strong .....	\$1,000.00
Vivian Drake .....	1,000.00
William Beebe .....	1,000.00
Bermuda Board of Trade .....	500.00
	<hr/>
Total .....	\$3,500.00

## GROUP VI

## Scientific and Research Fund

## NEW GUINEA EXPEDITION ACCOUNT

Unexpended Balance as of December 31, 1928.....		\$3,511.96	
RECEIPTS			
Sale of Camera .....	\$50.00		
Sale of Photographs .....	40.00	90.00	
			\$3,601.96
EXPENDITURES			
New Guinea Expedition .....	\$3,572.59		
General Income Account (transfer) .....	29.37	\$3,601.96	
			\$3,601.96

## LIBRARY ACCOUNT

Unexpended balance as of December 31, 1928 .....		\$38.24	
RECEIPTS			
General Income Account (transfer) .....	\$1,500.00	\$1,500.00	
			\$1,538.24
EXPENDITURES			
Books, Pamphlets, etc. ....	\$356.45		
Subscription to Periodicals .....	168.63		
Express and other Charges .....	11.29		
Miscellaneous Supplies .....	60.30		
Miscellaneous Expenses .....	426.21	\$1,023.33	
Unexpended balance as of December 31, 1929 .....		514.86	
			\$1,538.24

## HEADS AND HORNS COLLECTION ACCOUNT

Unexpended balance as of December 31, 1928 .....		\$2,871.34	
			\$2,871.34
EXPENDITURES			
Heads and Horns .....	\$404.35		
Express and other Charges .....	81.47		
Miscellaneous Expenses .....	183.66	\$669.48	
Unexpended balance as of December 31, 1929 .....		2,201.86	
			\$2,871.34

H. R. MITCHELL, *Manager*.  
January 1, 1930.

CORNELIUS R. AGNEW, *Treasurer*.



## SECURITIES OWNED BY THE NEW YORK ZOOLOGICAL SOCIETY

December 31, 1929

*Listed at Cost or Gift Value***Endowment Fund**

## GENERAL ENDOWMENT ACCOUNT

*Bonds:*

\$30,000	American Tel. & Tel. Co., 20-yr. Skg. Fd. Debenture 5½%, 1943 .....	\$29,475.00
4,000	Baltimore & Ohio RR. Co., 1st Mtge. 4%, 1948.....	3,120.00
85,000	Canadian Pacific Rwy. Co. Col. Trust Gold Bond, 5%, 1954....	84,975.00
3,000	Central RR. of New Jersey Gen. Mtge., 5%, 1987.....	3,031.25
17,600	Chicago, Milwaukee, St. Paul & Pacific RR. Co. Conv. Gold Series A, 5%, 2000.....	16,620.00
4,400	Chicago, Milwaukee, St. Paul & Pacific RR. Co. 50-yr. Mtge. Gold Series A, 5%, 1975.....	4,155.00
100,000	Chicago & Northwestern Ry. Co. 1st Conv. Debenture A, 4¾%, 1949 .....	100,000.00
20,000	Chicago & Northwestern Ry. Co. Gen. Mtge., 4%, 1987.....	19,750.00
15,000	Detroit Edison Co. Gen. & Rfg. Series A, 5%, 1949.....	14,625.00
20,000	Illinois Central RR., Chic., St. L. & N. O. Jt. RR. Co., 1st Ref. Series A, 5%, 1963.....	20,083.75
5,000	Lackawanna Steel Co. 1st Cons. Conv. Series A, 5%, 1950.....	4,891.25
9,000	Lehigh Valley Terminal Ry. 1st Mtge., 5%, 1941.....	9,090.00
75,000	P. Lorillard Co., 5%, 1951.....	72,775.00
5,000	Mich. Central RR. Co., Mich. Air Line RR., 1st Mtge., 4%, 1940 .....	4,950.00
20,000	Milwaukee, Sparta & No. West'n. Ry. Co., 1st Mtge., 4%, 1947	18,900.00
1,000	Morris & Essex RR. Co., 1st Rfdg. Mtge., 3½%, 2000.....	876.25
25,000	New England Tel. & Tel. Co., 1st Series A, 5%, 1952.....	24,843.75
25,000	N.Y. & Westchester Ltg. Co., Gen. Mtge., 100-yr., 4%, 2004....	19,750.00
25,000	Oregon Short Line RR. Co., 1st Cons. Mtge. Guaranteed by Union Pacific RR., 5%, 1946.....	25,990.00
16,000	Pennsylvania RR. Co., Secured 40-yr., 5%, 1964.....	16,120.00
10,000	St. Paul, Minn. & Man. Ry. Co., Cons. Mtge., 4%, 1933.....	9,800.00
80,000	Standard Oil Co. of N. J., 20-yr. Gold Deb., 5%, 1946.....	80,603.13
47,000	Union Pacific RR. Co., 1st Mtge. RR. & L.G., 4%, 1947.....	44,058.00
7,000	United New Jersey RR. & Canal Co. Gen. Mtge., 4%, 1944....	6,230.00
20,000	Vandalia RR. Co., Cons. Mtge. Series B, 4%, 1957.....	19,400.00

*Stocks:*

## Shares

50	American Superpower Corp. 1st Preferred.....	4,975.00
140	Elec. Bond & Share Co., \$6.00 Preferred.....	14,805.00
100	Louisville Gas & Elec. Co., 6% Cum. Preferred.....	10,750.00
100	N. Y., Lackawanna & Western Ry. Co. Capital .....	9,615.00

**\$694,257.38**

## HARKNESS ENDOWMENT ACCOUNT

*Bonds:*

\$50,000	American Gas & Elec. Co. Deb. Gold, 5%, 1928.....	\$50,250.00
50,000	Boston & Maine RR. 1st, 5%, 1967.....	49,757.50
50,000	Chic. Mil. St. P. & Pac. RR. Co. Gtd. Series A, 5%, 1975.....	47,881.25
50,000	Solvay Amer. Inv. Corp. 15-yr. Secured G. Ser. A, 5%, 1942....	49,750.00
250,000	Standard Oil Co. of N. J. 20-yr. Gold Debenture, 5%, 1946....	255,000.00

*Stocks:*

Shares		
500	American Gas & Elec. Co., \$6.00 Preferred.....	53,375.00
500	Buffalo Niagara & Eastern Power Corp. 1st. Pfd.....	48,225.00
500	Columbia Gas & Elec. Corp. 6% Cum. Pfd. Series A.....	54,875.00
500	Consolidated Gas. Co. of N. Y. \$5.00 Cum. Preferred.....	51,975.00
500	Indianapolis Power & Light 6½% Cum. Preferred.....	52,875.00
400	Louisville Gas & Elec. 6% Cumulative Preferred.....	42,925.00
500	New York, Chicago & St. L. RR. 6% Cum. Pfd. Series A.....	54,500.00
2,500	Prairie Pipe Line Co. Capital .....	104,000.00
500	Public Service Elec. & Gas Co. 6% Cum. Pfd. Series 1925.....	54,375.00

*Bonds and Mortgages:*

70,000	Benenson Bldg. Corp., 14/22 Cortlandt St., 9/17 Dey St., N. Y. C., Participation Mortgage, 5½%, 1934.....	70,000.00
		<hr/>
		\$1,039,763.75

## ROCKEFELLER ENDOWMENT ACCOUNT

*Bonds:*

\$50,000	Alleghany Corporation 15-yr. Col. Tr. Conv. 5%, 1954.....	\$51,450.00
15,000	Canadian Pacific Ry. Co. Col. Tr. Gold, 5%, 1954.....	14,962.50
50,000	Central Pacific Ry. Co. Rfdg., 4%, 1949.....	43,050.00
100,000	Chesapeake & Ohio Ry. Genl. Mtge., 4½%, 1992.....	96,906.25
50,000	Chic., Burl'n & Quincy RR Co., Ser. A. 1st & Rfdg. 5%, 1971	49,322.50
100,000	Chicago & Northwestern Ry. Co., 1st & Rfdg. Mtge., 5%, 2037	104,018.75
50,000	Kreuger & Toll Co. Second Skg. Fund Gold Deb., 5%, 1959....	48,875.00
50,000	Lackw'a Steel Co., Conv. 1st Cons. Mtge. Ser. A, 5%, 1950.....	49,312.50
50,000	Lake Shore & Michigan Southern RR. Co., 4%, 1931.....	45,915.50
50,000	Liggett & Myers Tobacco Co. Gold, 5%, 1951.....	48,243.75
25,000	P. Lorillard Co. Gold, 5%, 1951.....	24,037.50
50,000	New Eng. Tel. & Tel. Co. 1st Series A, 5%, 1952.....	48,735.00
50,000	New Eng. Tel. & Tel. Co. 1st Series B, 4½%, 1961.....	47,225.00
40,000	New York Central RR. Co. Cons. Series A, 4%, 1998.....	32,015.00
50,000	New York Central RR. Co. Rfdg. & Imp. Series C, 5%, 2013	47,562.50
50,000	N. Y. Tel. Co. 1st and Gen. Mtge. Skg. Fund, 4½%, 1939.....	46,787.50
50,000	Union Pacific RR. Co. 1st RR. & L. G., 4%, 1947.....	45,693.75
18,000	West. Union Tel. Co., Funding & R. E., 4½%, 1950.....	16,899.50

*Stocks:*

Shares		
505	American Tobacco Co. Pfd. ....	56,230.63
565	Morris & Essex RR. Co. Par. \$50.00 .....	45,623.75

*Bonds and Mortgages:*

40,000	Benenson Building Corporation, 14/22 Cortlandt St., 9/17 Dey St., New York City, Participation Mortgage, 5½%, 1934....	40,000.00
		<hr/>
		\$1,002,866.88

## SAGE ENDOWMENT ACCOUNT

*Bonds:*

\$50,000	Central Pacific Ry. Co., 1st Rfdg., 4%, 1949.....	\$43,983.75
75,000	Chi., Burl. & Quincy RR. Co., 1st & Rfdg., Series A, 5%, 1971	75,605.00
6,000	Erie RR. Co. Prior Lien, 4%, 1996.....	3,015.00
5,000	Ill. Central RR., Chic. St. L. & N. O. RR. Co., Jt., 1st Rfdg., Series "A," 5%, 1963.....	5,022.50
21,000	Interborough Rapid Transit Co., 1st & Rfdg. Gold Stamped, 5%, 1966 .....	13,413.75
75,000	Liggett & Myers Tobacco Co. Gold, 5%, 1951.....	74,296.25
10,000	New Brunswick Southern Ry. Co. 1st Mtge., 30-yr. Gold, 3%, 1933 .....	8,100.00
10,000	New York Central RR. Co. Cons. Mtge. Series "A" Gold, 4%, 1998 .....	8,034.00
50,000	New York Central RR. Co. Rfdg. & Impr. Series "C," 5%, 2013 .....	47,250.00
4,000	New York State Rys. 50-yr. 1st Cons. Gold Series "A," 4½%, 1962 .....	2,645.00
50,000	New York Telephone Co. 1st & Genl. Mtge. Skg. Fund, 4½%, 1939 .....	43,326.50
10,000	Oregon, Wash. RR. & Nav. Co. 1st & Rfdg. Mtge. Series "A," 4%, 1961 .....	6,500.00
15,000	Pennsylvania RR. Co. Secured, 5%, 1964.....	15,018.75
5,000	Rochester Ry. & Lt. Co. Cons. Mtge. Gold, 5%, 1954.....	4,475.00
6,000	Schenectady Ry. Co. 1st Mtge. 30-yr. Series "A" Gold, 5%, 1946 .....	3,690.00
100,000	South. Pacific Co. 40-yr. Gold Bonds of 1929, 4½%, 1969.....	99,125.00

*Stocks:*

Shares		
95	American Tobacco Co. Preferred.....	10,319.37
200	Atchison, Topeka & Santa Fe Ry. Co. Preferred.....	14,525.00
650	Bankers Trust Co. Capital .....	29,250.00
51	Chicago & Northwestern Ry. Co. Common.....	3,184.31
500	Consolidated Gas Co. of N. Y. \$5.00 Cum. Preferred .....	47,000.00
710½	Electric Bond & Share Co., no par Common .....	5,330.50
360	Electric Bond & Share Co., \$6.00 no par Preferred.....	38,070.00
504	General Electric Co., Common.....	27,720.00
176	General Electric Co., Special.....	1,760.00
112	Illinois Central RR. Co., Common .....	12,742.53
162	Pennsylvania RR. Co., Capital.....	5,646.87
220	Pullman Incorporated, Capital .....	9,636.00
100	Union Pacific RR. Co., Preferred .....	6,237.50
250	United States Steel Corp., Preferred.....	27,359.38
38	Western Union Telegraph Company, Capital.....	3,477.00
Rights		
142	Pennsylvania RR. Company .....	484.50
		<hr/>
		\$696,243.46

## GEORGE F. BAKER ENDOWMENT ACCOUNT

*Bonds:*

\$50,000	Pennsylvania RR. Co., Gen. Mtge. Series "B," 5%, 1968.....	\$50,012.50
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*Bonds and Mortgages:*

50,000	Benenson Building Corp., 14/22 Cortlandt St., 9/17 Dey St., N. Y. City, par. Mtge., 5½%, 1934.....	50,000.00
		<u>\$100,012.50</u>

## JACOB H. SCHIFF ENDOWMENT ACCOUNT

*Bonds:*

\$25,000	American Telephone & Telegraph Co. Skg. Fund, 5%, 1960....	\$25,250.00
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*Stocks:*

Shares 300	Morris & Essex RR. Co., \$50.00 par, Capital.....	24,225.00
		<u>\$49,475.00</u>

## LADIES' AUXILIARY ENDOWMENT ACCOUNT

*Bonds:*

\$5,000	Missouri & Ill. Bridge & Belt RR. Co., 1st Mtge. 4%, 1951....	\$5,000.00
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**Special Endowment Fund**

## CADWALADER ANIMAL ENDOWMENT ACCOUNT

*Bonds:*

\$20,000	Illinois Central RR. Co. & Chic., St. L. & N. O. RR. Co. Jt. 1st Rfdg. Mtge. Series "A", 5%, 1963.....	\$20,000.00
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## FLORENCE LYDIG STURGIS ENDOWMENT ACCOUNT

*Bonds:*

\$10,000	American Telephone & Telegraph Co. Skg. Fund, 5½%, 1943	\$9,987.50
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## STOKES BIRD ENDOWMENT ACCOUNT

*Bonds:*

\$5,000	Illinois Central RR. Co. Rfdg. Mtge., 4%, 1955.....	\$5,056.46
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## CARNEGIE PENSION ENDOWMENT ACCOUNT

*Bonds:*

\$25,000	Chicago & Northwestern Ry. Co., Genl. Mtge. 4%, 1987.....	\$23,687.50
25,000	Illinois Central RR. Co., Rfdg. Mtge., 4%, 1955.....	23,062.50
25,000	Lehigh Coal & Nav. Co., Cons. Mtge. Skg. Fund, 4½%, 1954	24,875.00
1,000	Michigan Central RR. Co., Gold Bond, 3½%, 1952.....	817.50
5,000	Morris & Essex RR. Co., 1st Rfdg. Mtge., 3½%, 2000.....	4,373.75
25,000	Philadelphia & Baltimore Central RR. Co., 1st Mtge., 4%, 1951 .....	23,250.00
		<u>\$100,066.25</u>

## PENSION FUND INCOME ACCOUNT

## Uninvested balance as of December 31, 1928:

At City Bank Farmers Trust Co.....	\$8,045.48	
At Corn Exchange Bank Trust Co. ....	509.22	\$8,554.70
		<u>136,343.00</u>
Investments at Cost .....		<u>\$144,897.70</u>

## RECEIPTS

Interest on Bank Balances .....	\$206.85	
Income from Investments .....	6,698.28	
Dues Collected from Zoological Society Employees.....	4,904.11	11,809.24
		<u>164,706.94</u>
Contributed by the N. Y. Zoological Society:		
Income from Carnegie Endowment .....	\$4,335.00	
General Income Fund (transfer) .....	3,665.00	8,000.00
		<u>\$164,706.94</u>



EXPENDITURES		
Physical Examinations .....	\$60.00	
Clerical Services .....	300.00	
Death Benefit a/c David Daley .....	513.00	
Pension Payments .....	13,898.70	\$14,771.70

*Investments at Cost:*

\$2,000	N. Y. Cen. & H. R. RR. (Lake Shore Col.), 1998, 3½% Bonds .....	\$1,300.00	
3,000	Union Pacific RR., first 1947, 4% Bonds.....	2,486.25	
5,000	Twenty-third St. Ry. Impr. & Ref. 1962, 5% Bonds .....	4,825.00	
5,000	Oregon Short Line RR., 1946, 5% Bonds.....	4,945.00	
6,000	Buffalo Gen. Elec., first 1939, 5% Ref. Bonds....	5,640.00	
1,400	Chic. Mil. St. Paul & Pac. RR. Co., 1975, 5% Bonds .....	1,073.75	
5,600	Chic. Mil. St. Paul & Pac. RR. Co., 2000, 5% Bonds .....	4,295.00	
5,000	Columbia Gas & Elec. 1952, 5% Gold Bonds.....	5,016.25	
7,000	Lackawanna Steel Co., first 1950, 5% Bonds .....	6,847.75	
12,000	C. B. & Q. RR., Ill. Divn., 1949, 3½% Bonds.....	9,462.00	
12,000	Detroit Edison Co., 1949, 5% Ref. Bonds.....	11,914.00	
13,000	B. & O. RR., Co., first 1948, 4% Bonds .....	11,322.75	
13,000	B. & O. (P. L. E. & W. Va. RR.), 1941) 4% Ref. Bonds .....	10,506.25	
17,000	I. C. & C. St. L. & N. O. RR. Co., Joint 1963, 5% Bonds .....	16,838.00	
19,000	Mich. Cent. RR., first 1952, 3½% Bonds .....	15,416.00	
25,000	Liggett & Myers Tob. Co., 1951, 5% Bonds.....	24,455.00	
10,000	Participating Bond & Mtge., Benenson Bldg., Corp., 1934, 5½% .....	10,000.00	146,343.00

## Uninvested balance, December 31, 1929:

At City Bank Farmers Trust Co.....	\$3,137.61	
At Corn Exchange Bank Trust Co.....	454.63	3,592.24
		<u>\$164,706.94</u>

H. R. MITCHELL,  
Asst. to Treasurer in Charge of Pensions.  
January 1, 1930.

CORNELIUS R. AGNEW,  
Treasurer.

## PEAT, MARWICK, MITCHELL &amp; CO.

ACCOUNTANTS AND AUDITORS

40 Exchange Place

New York, N. Y.

**Certificate of Auditors**

We have audited the books and accounts of the New York Zoological Society and of the "Pension Fund Income Account" for the year ended December 31, 1929, and certify that the foregoing schedules are in accordance with the books, and that, in our opinion, they correctly record the transactions relating to the funds of the Society and the Pension Fund Income Account for the year 1929, and the condition of the funds as at December 31, 1929.

The subscriptions, donations and dues reported as received, and the income from investments have been properly accounted for, and the securities and cash on hand at December 31, 1929, as shown in the accounts of the funds presented herewith, have been checked and found in order. Satisfactory vouchers have been produced for the expenditures.

(Signed) PEAT, MARWICK, MITCHELL & Co.

New York, N. Y.,  
April 8, 1930.

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**Report of the Auditing Committee**

OF THE

## NEW YORK ZOOLOGICAL SOCIETY

To the President and Board of Managers  
of the New York Zoological Society:

Dear Sirs:

We beg to report that we have examined the annual audit of the books and accounts of the New York Zoological Society for the year ended December 31, 1929, made by Messrs. Peat, Marwick, Mitchell & Co., accountants and auditors, and herewith submit the same to you as a complete and satisfactory audit of said books and accounts, including the General Endowment Fund, Special Endowment Funds, Income Fund, the Carnegie Pension Fund, the Pension Fund Income Account and the Privilege Account, it appearing that all expenditures and receipts of the various accounts are fully set forth therein, that the cash on hand and at the various depositories has been verified and found correct, and that all securities in which the funds of the Society are invested have been examined and found as reported.

Expenditures made through the Park Department of the City of New York have not been verified by this audit as such moneys have not passed through the hands of the Society, but are in due course checked and verified by the Comptroller of this City.

Respectfully submitted,

WILLIAM W. NILES, *Chairman.*  
GEORGE C. CLARK,  
GRAFTON H. PYNE.

April 1st, 1930

**Department of Parks, Bronx—City of New York****NEW YORK ZOOLOGICAL PARK**

Code N. D. P. 359 C—Construction and equipment of Comfort Station near Lion House.

Approved by Board of Estimate and Apportionment,  
March 15, 1929, Calendar No. 322A ..... \$35,000.00

**EXPENDITURES DURING 1929**

Stoughton & Stoughton, preliminary drawings and specifications ..... 350.00

Unexpended balance as of December 31, 1929..... \$34,650.00

JOHN H. BERGEN, *Chief Clerk*,  
Department of Parks, Borough of Bronx.

**Department of Parks, Manhattan—City of New York****AQUARIUM—ALTERATIONS**

Code C. D. P. 4 A.—Construction of an additional story to the Aquarium.

Approved by the Board of Estimate and Apportionment,  
December 28, 1921 ..... \$75,000.00

**EXPENDITURES**

Contract, Thos. A. Reilly Co., for the construction of additional story to Aquarium ..... \$73,773.30  
Open Market Order for Blue Prints, Electro Sun Co. .... 7.00 73,780.30

Balance rescinded by Board of Estimate and Apportionment, December 5, 1929 ..... 1,219.70  
\$75,000.00

Code C. D. P. 4 B.—Plumbing, heating and interior equipment for additional story to Aquarium.

Approved by the Board of Estimate and Apportionment,  
December 28, 1921 ..... \$11,000.00

**EXPENDITURES**

Contract, John Smith, for plumbing ..... \$720.00  
Contract, S. L. Snyder Co., for plumbing ..... 1,082.00  
Contract, Henry Bing, for heating ..... 1,985.00  
O. M. O. Thomas A. Reilly Co., relocate electrical equipment ..... 850.00  
O. M. O. Thomas A. Reilly Co., stairs, partitions, etc. .... 875.00  
O. M. O. Jos. Barrie Co., electrical work ..... 920.00  
O. M. O. Thomas A. Reilly Co., toilet room, 2nd floor ..... 833.00

O. M. O. S. L. Snyder Co., for plumbing work .....	110.00	
O. M. O. Jos. L. Burke Corp., marble work .....	899.00	
O. M. O. S. L. Snyder Co., for plumbing work .....	130.00	
O. M. O. Henry Bing, for heating .....	25.00	
O. M. O. Wm. J. Olvany, Inc., for heating .....	357.00	
O. M. O. Remo Realty Co., plumbing and heating .....	314.88	
O. M. O. Wm. Knopp Electric Co., electrical work .....	386.00	
O. M. O. Remo Realty Co., gutters, etc. ....	200.00	
O. M. O. P. H. Keogan, electrical work .....	875.00	10,561.88
Balance rescinded by the Board of Estimate and Apportionment, December 5, 1929 .....		438.12
		<u>\$11,000.00</u>

## Code N. D. P. 4 C.—Completion of Reconstruction of Aquarium.

Approved by Board of Estimate and Apportionment, January 29, 1925 .....	\$33,000.00
Approved by Board of Estimate and Apportionment, March 25, 1926 .....	1,500.00
	<u>\$34,500.00</u>
Rescinded by Board of Estimate and Apportionment, June 14, 1928 .....	1,155.54
	<u>\$33,344.46</u>

## EXPENDITURES

O. M. O. N. Y. Letter Co., printing specifications .....	\$61.05	
Contract, Remo Realty Co., completion of reconstruction....	31,166.50	
Contract, English Construction Co., Construction of East Wall .....	2,100.00	
O. M. O. John Price Jones, printing specifications .....	16.91	\$33,344.46

Code N. D. P. 4 D.—Construction of an additional exhibition space—  
New York Aquarium.

Approved by Board of Estimate and Apportionment, March 15, 1929 .....	\$60,000.00
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Code N. D. P. 4 E.—Construction of a parapet on the exterior of the building—  
New York Aquarium.

Approved by Board of Estimate and Apportionment, March 15, 1929 .....	\$5,000.00
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## EXPENDITURES

Contract, John Milnes Co. ....	\$5,000.00
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January 1, 1930

JAMES A. SHERRY, *Chief Clerk.*  
Department of Parks, Borough of Manhattan.

SUBSCRIPTIONS TO THE GENERAL ENDOWMENT FUND OF THE  
NEW YORK ZOOLOGICAL SOCIETY

(\$5,000 and over)

Mrs. Frederick F. Thompson .....	\$55,000.00
E. C. Converse .....	50,000.00
Edwin Gould .....	40,000.00
Percy R. Pyne .....	35,000.00
George F. Baker .....	25,000.00
James B. Ford .....	25,000.00
T. Coleman du Pont .....	25,000.00
Maria DeWitt Jesup .....	25,000.00
Cleveland H. Dodge .....	25,000.00
Jacob H. Schiff .....	25,000.00
Samuel Thorne .....	25,000.00
Charles E. Rhinelander .....	21,669.25
Watson B. Dickerman .....	20,000.00
J. P. Morgan .....	20,000.00
Lispenard Stewart .....	12,500.00
Frank W. Kitching .....	10,329.16
Edward S. Harkness .....	10,000.00
James J. Hill .....	10,000.00
Henry Iden .....	10,000.00
Ogden Mills .....	10,000.00
Levi P. Morton .....	10,000.00
John D. Rockefeller, Jr. ....	10,000.00
Edward Russ .....	10,000.00
Phoebe Anna Thorne .....	10,000.00
C. F. Dieterich .....	6,000.00
Mortimer L. Schiff .....	6,000.00
Abram G. Nesbit .....	5,500.00
John D. Archbold .....	5,000.00
Samuel P. Avery .....	5,000.00
Frederick G. Bourne .....	5,000.00
Robert S. Brewster .....	5,000.00
John L. Cadwalader .....	5,000.00
Andrew Carnegie .....	5,000.00
Hugh J. Chisholm .....	5,000.00
George C. Clark .....	5,000.00
George J. Gould .....	5,000.00
Archer M. Huntington .....	5,000.00
George W. Perkins .....	5,000.00
Nelson Robinson .....	5,000.00
John A. Roebling .....	5,000.00
F. K. Sturgis .....	5,000.00
Henry A. C. Taylor .....	5,000.00
Edwin Thorne .....	5,000.00
Emily Trevor .....	5,000.00



CONTRIBUTIONS TO SPECIAL FUNDS OF THE  
NEW YORK ZOOLOGICAL SOCIETY

(\$5,000 and over)

Harrison Williams .....	\$165,518.31
Mortimer L. Schiff .....	36,640.00
Andrew Carnegie .....	31,000.00
George F. Baker .....	25,500.00
Jacob H. Schiff .....	22,300.00
George D. Pratt .....	19,000.00
Samuel Thorne .....	18,950.00
Edward S. Harkness .....	18,000.00
Anthony R. Kuser .....	16,200.00
Marshall Field .....	16,100.00
George J. Gould .....	15,300.00
Cleveland H. Dodge .....	15,125.00
John D. Rockefeller .....	15,000.00
Robert S. Brewster .....	14,500.00
E. C. Converse .....	14,000.00
Percy R. Pyne .....	12,450.00
Lispenard Stewart .....	10,250.00
John D. Archbold .....	10,100.00
Vincent Astor .....	10,000.00
Mrs. Andrew Carnegie .....	10,000.00
Clarence Dillon .....	10,000.00
Mrs. Frederick F. Thompson .....	10,000.00
William Rockefeller .....	9,000.00
Charles F. Dieterich .....	8,800.00
Levi P. Morton .....	8,500.00
Charles T. Barney .....	7,500.00
F. Augustus Schermerhorn .....	7,500.00
Cornelius Vanderbilt .....	7,500.00
C. Ledyar Blair .....	6,750.00
A. Barton Hepburn .....	6,500.00
Mrs. Finley J. Shepard .....	6,400.00
John Cadwalader .....	6,200.00
Oliver H. Payne .....	6,000.00
Henry A. C. Taylor .....	6,000.00
William K. Vanderbilt .....	6,000.00
William C. Whitney .....	6,000.00
Nelson Robinson .....	5,900.00
John S. Barnes .....	5,750.00
Frederick G. Bourne .....	5,500.00
J. P. Morgan .....	5,500.00
Emerson McMillan .....	5,280.00
Oswald Ottendorfer .....	5,250.00
William D. Sloane .....	5,250.00
Edward J. Berwind .....	5,000.00
William E. Dodge .....	5,000.00
Robert Goelet .....	5,000.00
C. P. Huntington .....	5,000.00
Mrs. John B. Trevor .....	5,000.00
Mrs. Antoinette E. Wood .....	5,000.00

LIST OF ACCESSIONS BY THE  
**New York Zoological Society**

AT THE ZOOLOGICAL PARK  
1929

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- ABODIE, MRS. AUGUST J., New York City:  
Red-and-Blue Macaw.
- ABRAMSON, MRS. HARRY, Saratoga Springs, N. Y.:  
Red-and-Blue Macaw.
- ADAMS, DR. E. C. L., Columbia, S. C.:  
Hog-Nosed Snake.
- ALBERT, L. S., New York City:  
Rhesus Monkey.
- AMERICAN SOCIETY FOR THE PREVENTION OF CRUELTY TO ANIMALS, New York City:  
1 Alligator, 1 Barn Owl, 1 Screech Owl. Total, 3 specimens.
- APPENZELLAR, D. C., New York City:  
1 South American Boa, 1 Copperhead Snake.
- ATWELL, GEORGE C., Mt. Vernon, N. Y.:  
Opposum.
- BANANA SALES CORPORATION, New York City:  
8 South American Boa Constrictors, 2 South American Rat Snakes, 2 Night Snakes, 1 Green-Headed Tree Snake, 1 Smooth-Scaled Snake, 1 Crab-Eating Raccoon, 1 Snapping Turtle, 1 Murine Opossum, 1 Lizard, 1 Spiny-Tailed Lizard, 2 Iguanas, 1 Spiny-Tailed Iguana, 7 Geckos, 1 Skink, 2 Tree Frogs, 1 Tree Toad, 1 Chameleon, 8 Tarantulas, 2 Spiders, 1 Yellow-Naped Amazon.  
Total, 45 specimens.
- BARBER, E. R., New York City:  
Bonnet Macaque.
- BARTLETT, MRS. HARTLEY W., Huntington, N. Y.:  
Alligator.
- BECKER, GEORGE, and BIER, AL., New York City:  
Raccoon.
- BEIL, ARTHUR, New York City:  
Alligators (2 specimens).
- BENJAMIN, ERIC, New York City:  
2 Boa Constrictors, 1 Tegu.
- BERGMAN, GUSTAV A., Brooklyn, N. Y.:  
Green Lizard
- BERKOWITZ, LOUIS, New York City:  
Alligator
- BERTRAM, MISS ELSHA, New York City:  
Marmosets (2 specimens).
- BESSIE, A. C., New York City:  
Texas Rattlesnake.
- BEVANS, MICHAEL, New York City:  
Wood Tortoise.
- BIERS, AL., and BECKER, GEORGE, New York City:  
Raccoon.
- BIOLOGY DEPARTMENT, JAMES MADISON HIGH SCHOOL, Brooklyn, N. Y.:  
Wood Duck.

## BIOLOGY DEPARTMENT, NEW YORK UNIVERSITY, New York City:

Red-Shouldered Hawk.

## BLEICHER, CARL, New York City:

2 Tarantulas, 1 Boa Constrictor, 1 Black Iguana. Total 3 specimens.

## BOOG, S. G., New York City:

Blue-and-Yellow Macaw.

## BOWDISH, BEECHER S., Demarest, N. J.:

Opossum.

## BOYD, GEORGE E., De Soto City, Fla.:

1 Florida Water Snake, 1 Hog-Nosed Snake.

## BOYER, WALLACE, New York City:

Weeper Sapajou.

## BRADY, MAURICE K., New York City.:

2 Banded Rattlesnakes, 1 Copperhead Snake.

## BRAUN, AUGUST, New York City:

Screech Owl.

## BROMILY, IRVING, New Rochelle, N. Y. :

White-Tailed Deer.

## BROWN, FRANK X., New York City:

Alligator.

## BUCK, MRS. R. B., Mountain Lake, N. J.:

White-Throated Sapajou.

## BUCKINGHAM, MASTER RUSSELL, Yonkers, N Y.:

1 Raccoon, 1 Alligator.

## BULLARD, MRS. M. L., Rutherford, N. J.:

Java Macaque.

## BURDEN, DOUGLAS, New York City:

2 Black Bears, 2 Gray Wolves.

## BURSTEIN, BURNY, New York City:

1 Pine Snake, 1 Water Snake.

## CALCOGONI, ERNEST, New York City:

Barred Owl.

## CARTER, DONALD, New York City:

2 Abyssinian Lovebirds, 2 Abyssinian Pygmy Falcons.

## CHAPMAN, MRS., New York City:

Slider Turtle.

## CHRISTENSON, HAROLD, White Plains, N. Y.:

Copperhead Snake.

## CHURCHILL, PAUL D., Danbury, Conn.:

Pilot Blacksnake.

## COE, MISS M. S., New York City:

1 European Goldfinch, 1 Blackcap Warbler, 1 European Bullfinch, 1 Red-Billed Hill-Tit. Total, 4 specimens.

## COOK, MRS. H., JR., New York City:

Alligator.

## CORBETT, THOMAS, New York City:

White-Nosed Coati Mundi.

## COWLES, MRS. S., New York City:

White-Faced Sapajou.

## CRAMER, W. J., JR., Lancaster, Pa.:

3 Painted Turtles.

## CRANE, MASTER DUNCAN, Larchmont, N. Y.:

Alligator.

## CRIMMINS, COLONEL M. L., Ft. Sam Houston, Texas:

1 Horned Toad, 6 Texas Tarantulas, 2 Rattlesnakes, 1 Lizard. Total, 10 specimens.

- CROCKER LABORATORY, Columbia University, New York City:  
1,700 White Rats, 782 White Mice.
- CROSSMAN, DR. V. W., Brooklyn, N. Y.:  
Skunk.
- CUSHING, F. G., New York City:  
White-Faced Sapajou.
- DAYTON, MRS. PAUL K., Upper Montclair, N. J.:  
Swift.
- DEAN, M. E., New York City:  
Praying Mantis.
- DEARBORN, DR. REUBEN B., Brooklyn, N. Y.:  
South American Boa Constrictor.
- DE AVELLAR, MRS. JOSE, New York City:  
1 White-Throated Seedeater, 1 Thick-Billed Pygmy Grosbeak.
- DECK, R. S., Kew Gardens, L. I., N. Y.:  
Brazilian Turtle.
- DE LENA, PATSY, New York City:  
Tarantula.
- DO AMARAL, DR. AFRANIO, Glenolden, Pa.:  
4 Brazilian Rattlesnakes, 2 Spotted Rat Snakes, 2 Spotted Snakes, 2 Whip  
Snakes, 1 Anaconda, 1 Boa Constrictor, 1 Mussurana, 3 Neuwied's Vipers, 2  
Jararacucus, 8 Jararacas, 1 Horned Toad. Total, 27 specimens.
- DOUGHERTY, THOMAS F., New York City:  
Hussar Monkey.
- DREXLER, WILLIAM, New Brighton, S. I., N. Y.:  
Woolly Monkey.
- DUTCHER, BENJAMIN L., Pleasantville, N. Y.:  
Alligators (2 specimens).
- EASTMAN, MRS. L. J., New Rochelle, N. Y.:  
Alligators ((2 specimens).
- EDDINS, MRS. FANNIE L., Ft. Worth, Texas:  
Horned Toads (2 specimens).
- ELBERT, ROBERT G., Manhasset, L. I., N. Y.:  
Red-Shouldered Hawks (3 specimens).
- ERNST & SON, New York City:  
Laughing Gull.
- ESTABROOK, AUSTIN L., deceased, through LURCOTT, MISS OLIVE E., New York City:  
2 Undulated Grass Parrakeets, 1 Blue-Winged Parrotlet.
- ESTES, MRS. THOMAS W., New Rochelle, N. Y.:  
Alligator.
- FALCON MOTORS CORPORATION, New York City:  
Falcon.
- FAROD, W., White Plains, N. Y.:  
Alligator.
- FARRINGTON, RICHARD L., Creedmore, L. I., N. Y.:  
46 Box Tortoises, 1 Blacksnake, 1 Milk Snake, 4 Garter Snakes. Total, 52  
specimens.
- FINCH, E. W., Brewster, N. Y.:  
Pilot Blacksnake.
- FINCH, PROF. J. K., New York City:  
Green Grass Parrakeet.
- FINLAY, ROBERT, New York City:  
Alligators (2 specimens).
- FISHER, BOYD, Brooklyn, N. Y.:  
Sapajou.

- FLORSHEIM, H. A., Darien, Conn.:  
Opossum.
- FORD, M. D., Olean, N. Y.:  
Albino Woodchuck.
- FOSTER, MISS FLORENCE, New York City:  
Horned Toad.
- FRIED, JOSEPH, New York City:  
Screech Owl.
- GAINSBORG, MISS MARIA P., New York City:  
Red-Crested Cardinals (2 specimens).
- GALLUP, BRUCE, New York City:  
Squirrel Monkey.
- GARTER, A., Glendale, L. I., N. Y.:  
European Goldfinch.
- GASKINS, MRS. S. S., Rye, N. Y.:  
Strawberry Finch.
- GELLER, B. & SONS, New York City:  
1 Opossum, 1 Raccoon.
- GETTINGS, MRS. D., New York City:  
Blue-and-Yellow Macaw.
- GIFFORD, L. P., Jamaica, L. I., N. Y.:  
Red Fox
- GILLAM, ARTHUR L., Flushing, L. I., N. Y.:  
1 Banded Rattlesnake, 2 Copperhead Snakes, 2 Rattlesnakes, 1 Garter Snake,  
1 Hog-Nosed Snake. Total, 7 specimens.
- GILLESPIE, ALEXANDER J., JR., New York City:  
White-Nosed Coati Mundi.
- GOLDHORN, DR. L. B., Mt. Vernon, N. Y.:  
1 Copperhead Snake, 3 Blacksnakes, 1 Pilot Blacksnake, 1 Water Snake, 2 Milk  
Snakes. Total, 8 specimens.
- GOLDRICH, LOUIS, New York City:  
Alligator.
- GOODWIN, GEORGE G., New York City:  
European Kestrel.
- GREENHALL, ARTHUR, L., New York City:  
6 Garter Snakes, 1 Water Snake, 3 Banded Water Snakes, 2 Ribbon Snakes,  
4 Painted Terrapin, 2 Spotted Turtles, 5 Wood Turtles, 6 Musk Turtles, 101  
Green Frogs, 1 Bull Frog, 3 Wood Frogs, 3 Leopard Frogs, 9 Toads. Total,  
146 specimens.
- GRONDAHL, IVAN, New York City:  
Alligators (2 specimens).
- GUGGER, PAUL H., New Haven, Conn.:  
White-Faced Sapajou.
- GUTNER, S., Yonkers, N. Y.:  
Alligator.
- HALL, WILLIAM JOHN, New Rochelle, N. Y.:  
White-Nosed Coati Mundi.
- HALSTEAD, MRS. J. M., New York City:  
1 Green Grass Parrakeet, 1 Yellow Grass Parrakeet.
- HAMMOND, EDWARD W., Larchmont Manor, N. Y.:  
Alligators (2 specimens).
- HANSON, OSCAR, Brooklyn, N. Y.:  
Chameleon.
- HARDING, MRS. A., New York City:  
Roseate Cockatoo.



- HARTING, G. W., New York City:  
Sora Rail.
- HATHAWAY, JACK, Boston, Mass.:  
Black Snake.
- HAYWARD, COLONEL WILLIAM, New York City:  
Polar Bear Cubs (4 specimens).
- HINCKLEY, E. B., New York City:  
1 Lizard, 1 Gecko.
- HOUGH, VINCENT R., New York City:  
Red-Shouldered Hawk.
- HYERS, OSBORNE, Offerman, Ga., and OLMSTEAD, CHARLES, Brooklyn, N. Y.:  
Red Coati Mundi.
- JACKSON, MRS. NELLIE, New York City:  
Alligator.
- JONKER, CAPTAIN R., New York City:  
Paradoxure.
- JUBRIAS, MRS. J., Leonia, N. J.  
Blue-Fronted Amazon.
- KAPLAN, MORRIS, New York City:  
White-Winged Parrakeet.
- KARLING, PROF. JOHN S., New York City:  
White-Nosed Coati Mundi.
- KEPPLER, CARL, New York City:  
Banded Water Snake.
- KEPPLER, CHARLES EDWARD, Elizabeth, N. J.:  
Alligators (2 specimens).
- KLEINFELD, MISS CLEO, New York City:  
Yellow-Shouldered Amazon.
- KRZYWINSKI, ALFRED H., New York City:  
Horned Toads (2 specimens).
- LANE, MRS. JEAN, New York City:  
Marmoset.
- LAWRENCE, GEORGE W., Montelo, N. Y.:  
Axolotls (2 specimens).
- LENZ, SYDNEY HERBERT, New York City:  
Marmoset.
- LERNAN, A., Spring Valley, N. Y.:  
Gray Fox.
- LERNER, MICHAEL, Mt. Vernon, N. Y.:  
East African Crowned Cranes (2 specimens).
- LEVINE, DR. H., and ROHDENBURG, E. L., Bloomfield, N. J.:  
White Rats (67 specimens).
- LEVY, MRS. M. J., New York City:  
Blue-Winged Parrotlets (2 specimens).
- LEWIS, MRS. AMELIA, New York City:  
Raccoon.
- LONG, J. N., Bruin, Pa.:  
Sparrow Hawks (3 specimens).
- LUDVIGH, E. J., New Rochelle, N. Y.:  
White-Faced Sapajou.
- LYNCH, SAMUEL DUTTON and ELIZABETH, Yonkers, N. Y.:  
Gila Monster.
- MCCLURE, G. W., New York City:  
Corn Snake.
- McCULLOH, MISS M. E., New York City:  
Green Grass Parrakeets (2 specimens).

- MCDONALD, PETER, New York City:  
Bougainvilles White-Breasted Cormorant.
- MCGONAGLE, JAMES, New York City:  
Alligator.
- MANLEY, DR. MARK, Brooklyn, N. Y.:  
Emory Coluber.
- MARX, JACOB B., Cincinnati, Ohio:  
Japanese Coluber.
- MASTRODOMINICO, N., New York City:  
Chaffinch.
- MIHM, MRS. H., Scarsdale, N. Y.:  
Green Monkey.
- MILLER, PAUL W., JR., New York City:  
Hermit Thrush.
- MORELLI, THOMAS, New York City:  
Box Tortoise.
- MORGAN, P. B., New York City:  
Rock Python.
- MURPHY, DR. ROBERT CUSHMAN, New York City:  
Fish Crow.
- NATIONAL ZOOLOGICAL PARK, Washington, D. C.:  
2 Civets, 2 Nile Monitors, 2 Frogs, 2 Emperor Geese. Total, 8 specimens.
- NATURE CLUB, THE, Lawrence, L. I., N. Y.:  
Canada Porcupine
- NATURE FRIEND PET SHOP, New York City:  
White Rats (50 specimens).
- NOBLE, DR. G. K., New York City:  
1 Snapping Turtle, 7 Sirens, 3 Copperhead Snakes, 2 Black Snakes, 1 Garter Snake, 1 Water Snake, 1 Rattlesnake. Total, -16 specimens.
- NOBLE, MISS MARGARITA, Greenwich, Conn.:  
Alligators (3 specimens).
- OLMSTEAD, CHARLES, Brooklyn, N. Y., and HYERS, OSBORNE, Offerman, Ga.:  
Red Coati Mundi.
- O'NEILL, MRS. VINCENT E., Tuckahoe, N. Y.:  
Canaries (2 specimens).
- PALISADES INTERSTATE PARK, Iona Island, N. Y.:  
American Beaver (5 specimens).
- PALMER, ALBERT, New York City:  
Barred Doves (2 specimens).
- PALMER, CHESTER A., Yonkers, N. Y.:  
Box Tortoise.
- PALMER, GEORGE, Mt. Vernon, N. Y.:  
1 Rattlesnake, 6 Milk Snakes, 6 Ring-Necked Snakes, 13 Garter Snakes, 1 Water Snake. Total, 27 specimens.
- PARDOE, DR. J. B., Bound Brook, N. J.:  
Opossum.
- PFLOMM, ROBERT, New York City:  
Screech Owl.
- PHILADELPHIA ZOOLOGICAL GARDENS, Philadelphia, Pa.:  
Electric Eels (2 specimens).
- PINTO, E., Plainfield, N. J.:  
Alligator.
- PLANT, PHILIP M., New York City:  
Polar Bear Cubs (2 specimens).
- PORTER, MRS. H., New York City:  
Screech Owl.

- POYET, EDWARD, New York City:  
Slider Turtle.
- PUPILS OF PUBLIC SCHOOL NO. 19, New York City:  
1 Herring Gull, 1 Blue Jay.
- QUINN, J., New York City:  
Raccoon.
- RAE, STEPHEN L., Scarsdale, N. Y.:  
Praying Mantis.
- RAMSAIER, GEORGE, New York City:  
Ocelot.
- REYNOLDS, MARCUS T., Albany, N. Y.:  
Alligator.
- RICHARDS, MRS. F. L., Yonkers, N. Y.:  
Mockingbird.
- RILEY, B. C., New York City:  
Great Horned Owl.
- ROBERTSON, MRS. J., Yonkers, N. Y.:  
Alligators (3 specimens).
- ROHDENBURG, E. L., and LEVINE, DR. H., Bloomfield, N. J.:  
White Rats (67 specimens).
- RONEY, MRS. J. P., Hillsdale, N. J.:  
Woodward Kangaroo.
- ROSENHAINS, New York City:  
Alligator.
- ROTHER, FREDERICK, New York City:  
Red-Crested Cockatoo.
- RUMANN, S., New York City:  
Hooded Sapsucker.
- RUMSEY, MRS. LOUISE G. C., New York City:  
Blue-and-Yellow Macaw.
- RUSSELL, KIRK L., Scarsdale, N. Y.:  
Blue-Fronted Amazon.
- RYLE, MRS. ARTHUR, Locust Valley, L. I., N. Y.:  
Weeper Sapsucker.
- SACKMAN, MRS. MARTHA, East Rockaway, L. I., N. Y.:  
White-Faced Sapsucker.
- SAN DIEGO ZOOLOGICAL SOCIETY, San Diego, Calif.:  
3 Bull Snakes, 3 King Snakes, 2 Rubber Boas, 1 Racer. Total, 9 specimens.
- SCHADT'S SEA FOOD MARKET, Asbury Park, N. J.:  
Spiny-Tailed Iguanas (3 specimens).
- SCHIEFER, MRS. J., Corona, L. I., N. Y.:  
Box Turtles (4 specimens).
- SCHMIDT, BERNHARDT, Elmhurst, L. I., N. Y.:  
American Sparrow Hawks (3 specimens).
- SCHMIDT, MRS. G. C., Yonkers, N. Y.:  
Alligator.
- SCHOTT, H. M., Dover, N. J.:  
Opossum.
- SCHUPNER, WILLIAM, New City, N. Y.:  
Banded Rattlesnakes (3 specimens).
- SCOTT & BOWNE, Bloomfield, N. J.:  
White Rats (104 specimens).
- SEYTON, MRS. R. W., Greenwich, Conn.:  
Java Macaque.
- SHELDON, HORACE A., Port Jervis, N. Y.:  
Great Horned Owl.

- SIEMAN, GERHARD F., Union City, N. J.:  
1 Milk Snake, 1 Box Turtle, 1 Gopher Snake. Total, 3 specimens.
- SIEVERS, H. A., New York City:  
Gray-Breasted Parrakeet.
- SILVERMAN, MRS. EDITH, New York City:  
Tovi Parrakeets (2 specimens).
- SILVERNAIL, MISS SADIE, Wappingers Falls, N. Y.:  
1 White-Faced Sapajou, 1 Guinea Pig.
- SIMON, SHELDON, New York City:  
Alligator.
- SMITH, EMERSON, New York City:  
Woolly Monkey.
- SMITH, MRS. BARTON H., Tampa, Fla.:  
Gopher Tortoise.
- SMITH, J. M., Montclair, N. J.:  
Slender-Billed Cockatoo.
- SNAKE KING, Brownsville, Texas:  
1 Tropical Rattlesnake, 7 Spiny-Tailed Iguanas.
- SNYDER, MRS. CHARLES E., New York City:  
1 Coral Snake, 4 Copperhead Snakes, 5 Rattlesnakes, 1 Chicken Snake, 1 Gopher Snake, 1 Gray Chicken Snake, 7 South American Boas, 1 Hog-Nosed Snake, 3 Night Snakes, 1 Palm Viper, 1 Garter Snake, 2 Alligators, 3 Gila Monsters, 2 Geckos. Total, 33 specimens.
- SPACE, RALPH, Beemerville, N. J.:  
Rattlesnakes (3 specimens).
- SPICER, C., New York City:  
Red-Shouldered Hawk.
- STATES, MRS. L., New York City:  
Alligators (2 specimens).
- ST. CLAIR, STUART, New York City:  
Texas Horned Toads (3 specimens).
- STERN, JOSEPH, New York City:  
1 Mockingbird, 1 European Starling.
- SWIFT, MRS. E. B., New York City:  
White-Throated Sapajou.
- TABENHOUSE, B., New York City:  
4 Rattlesnakes, 1 Cape Dove.
- TAMBURRANO, JOHN, New York City:  
Water Snake.
- TAYLOR, JULIUS, New York City:  
Alligator.
- THIELE, JOHN H., JR., Ozone Park, L. I., N. Y.:  
Opossum.
- THORNE, RICHARD, East Orange, N. J.:  
9 Rattlesnakes, 13 Copperhead Snakes, 8 Water Snakes, 1 Black Snake. Total, 31 specimens.
- TIMING, CHARLES W., Nutley, N. J.:  
South American Boa Constrictor.
- TOD, MISS KATHERINE, New York City:  
Weeper Sapajou.
- TOLEDO ZOOLOGICAL SOCIETY, Toledo, Ohio:  
Fox Snakes (3 specimens).
- TOMAZOLLI, CHARLES L., New York City:  
Java Macaque.
- TREACY, HARRY B., New York City:  
Red Fox.

- TWENTIETH PRECINCT POLICE STATION, New York City:  
King Snake.
- UNITED FRUIT COMPANY, New York City:  
1 Gecko, 1 Boa Constrictor.
- UNKEL, MRS. MARIE, Hudgins, Va.:  
2 Box Tortoises, 1 Mud Turtle.
- VANDERBILT, WILLIAM K., New York City:  
Tiger.
- VARRACHI, HARRY, Newark, N. J.:  
South American Boa Constrictor.
- VERMEHREN, JOHN and WALSH, ROBERT, New York City:  
Alligators (2 specimens).
- VIELE, MRS. C. K., New Rochelle, N. Y.:  
Southern Blue Tanager.
- VINCENT, CHARLES W., Dover Furnace, N. J.:  
Rattlesnake.
- WAGNER, C., Yonkers, N. Y.:  
Diamond-Back Turtles (2 specimens).
- WAGNER, MRS. T., New York City:  
White-Throated Sapajou.
- WAKE, G., S. S. *Winnebago*, London, England:  
Osprey.
- WALLERSTEIN, J. E., New York City:  
Coati Mundi.
- WALSH, ROBERT, and VERMEHREN, JOHN, New York City:  
Alligators (2 specimens).
- WARD, MISS MARY A., Pleasantville, N. Y.:  
European Goldfinch.
- WEIGEL, C. C., New York City:  
Gray Squirrels (2 specimens).
- WEINTRAUB, H., New York City:  
Maryland Yellow-Throat.
- WELLER, W. M., Cincinnati, Ohio:  
Japanese Water Snake.
- WHEELER, R. J., Allentown, N. J.:  
Copperhead Snake.
- WHITE, MARTIN, Crestwood, N. Y.:  
Purple Finch.
- WHITMORE, MRS. F., New York City:  
Slider Turtle.
- WICKS, MRS. GEORGE L., New Haven, Conn.:  
Horned Toad.
- WILLIAMSON, Second Officer, S. S. *Lempira*, New York City:  
Osprey.
- WINCHELL, MRS. EDWARD E., Mt. Vernon, N. Y.:  
English Ring-Necked Pheasant.
- WOOD, ROBERT WARREN, East Orange, N. J.:  
Black Bear.
- WUENSCH, MISS LOUISE, Brooklyn, N. Y.:  
Praying Mantis.
- ZIMMERMAN, MRS. R., New York City:  
Slider Turtle.
- ZUKOWSKI, STANLEY, New York City:  
Saw Whet Owl.



## National Collection of Horns and Heads

## BY GIFT

- BARBER, FREDERICK K., New York City:  
 Woodland Caribou (*Rangifer tarandus caribou*). Mounted Head.  
 FISHER, ARTHUR H., Philadelphia, Pa.:  
 Indian Water Buffalo (*Bos bubalis*). Skull and horns.  
 HIGGINSON, MRS. M. G., New York City:  
 American Elk (*Cervus canadensis*). Antlers.  
 RUNGUIS, CARL, New York City:  
 Woodland Caribou (*Rangifer tarandus caribou*). Skull and Antlers. Female.  
 TAYLOR, IRVING K., New York City:  
 Chamois (*Rupicapra tragus*). Mounted Head.

## BY PURCHASE

- Rocky Mountain Big Horn Sheep (*Ovis canadensis*). Mounted Head.  
 Indian Rhinoceros (*Rhinoceros unicornis*). Mounted Head.  
 Sudan Buffalo (*Bos quinoctialis*). Mounted Head.

## Library

- BLAIR, DR., W. REID, New York City:  
 In the Zoo, by W. Reid Blair.  
 BRITISH MUSEUM (Natural History), London:  
 Diptera, Brachycera and Athericera of the Fiji Islands, by Mario Bezzi.  
 GRANT, MADISON, New York City:  
 The Geographical Review, Volumes XVI and XVIII.  
 Fur Seals and Other Life of the Pribilof Islands, by Osgood, Preble and Parker.  
 Tortoises, Terrapins and Turtles, by Sowerby and Lear.  
 KOHTS, PROFESSOR ALEXANDER ERICH, Moscow, Russia:  
 Untersuchungen über die Erkenntnisfähigkeiten des Shimpansen, by Nadie Kohts.  
 Adaptative Motor Habits of the Macacus Rhesus under Experimental Conditions, by Nadie Kohts.  
 MARTINEZ, MAXIMO, Mexico City, Mexico:  
 Zoologia, by Maximo Martinez.  
 RAWLINGS, MRS. MAY, Sutton, Surrey, England:  
 Buffon's Natural History, translated by Barr. 8 Volumes.

## Art Gallery

- DOMINICK, BAYARD, New York City:  
 Oil Painting, "Water Hole Northern Kenya," by A. Radclyffe Dugmore.  
 ESTATE OF JOHN E. EUSTIS, New York City:  
 Oil Painting, "Sultan," by Carl Rungius.

## Plants

- DRASIN, MRS. B., New York City:  
 1 *Dracena massangeana*.  
 GUK, MRS. E., New York City:  
 1 Rubber Plant (*Ficus elastica*).  
 NOWATKA, MRS. SOPHIE, New York City:  
 1 *Pandanus veitchii*.  
 OCKO, MRS. SAMUEL, New York City:  
 1 Rubber Plant (*Ficus elastica*).

- REISHER, MRS. C., New York City:  
1 Rubber Plant (*Ficus elastica*).  
SCHVAL, MRS. LENA, New York City:  
1 Rubber Plant (*Ficus elastica*).  
SCHWARTZ, MRS. FRANK, New York City:  
1 Rubber Plant (*Ficus elastica*).  
SIMON, MISS CLARA L., New York City:  
1 *Pandanus veitchii*.  
TUCKERMAN, MRS. ELIOT, New York City:  
3 Fiddle Plants (*Ficus pandurata*).  
5 Fan Palms (*Latania chinensis*).  
1 Bougainvillea.

#### Miscellaneous

- BLAIR, DR. W. REID, New York City:  
1 Surgical Dressing Table for the Hospital.  
1 Case of Surgical Instruments.  
GRANT, MADISON, New York City:  
1 Reel of Motion Picture Film. Elephant Seals of Guadalupe Island.  
STAGG, FREDERICK LOUIS, Colorado Springs, Colo.:  
2 Skins of Ecuadorian Cock-of-the-Rock.  
1 Skin of Short-Tailed Quetzal.  
WHEELER, REV. W. REGINALD, New York City:  
1 Reel of Motion Picture Film. Gorilla.



LIST OF ACCESSIONS BY THE  
**New York Zoological Society**

AT THE AQUARIUM

1929

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- ABRAMOFF, MR. MURRAY, Brooklyn, N. Y.:  
Wood Turtle.
- ALLISON, MR. F. C., Brooklyn, N. Y.:  
File Fish (2 specimens).
- ANDERSON, MR. EDWIN, Brooklyn, N. Y.:  
Small Alligators (2 specimens).
- ANDREWS, MR. E., Brooklyn, N. Y.:  
Small Alligators (2 specimens).
- AQUARIENFISCH IMPORT & EXPORT COMPANY, Wansbek, Germany:  
Young Scalare (23 specimens).
- ARNOLD, MR. LEO, New York City:  
Small Alligator.
- BANTRAM, MR. EARL, Governors Island, N. Y.:  
Snapping Turtle.
- BAUMGARTNER, MR. JOHN, Little Falls, N. J.:  
Small Alligator.
- BENNETT, MR. JAMES W., Brooklyn, N. Y.:  
Small Alligator.
- BENNETT, MR. WILLIAM C., New York City:  
White-whiskered Catfish (13 specimens), Black-banded Sunfish (10 specimens), Pirate Perch (2 specimens), Mud Sunfish (2 specimens), Johnny Darters (6 specimens), Spotted Sunfish (3 specimens), Blue-spotted Sunfish (4 specimens), Chaetodon (3 specimens).
- BIANCO, MR. FRANK, New York City:  
Snapping Turtle.
- BROWN, MR. JAMES E., New York City:  
Small Alligator.
- BRYON, MR. B. H., Sound Beach, Conn.:  
Small Alligator.
- CASSETTA, MISS OLIVE V., Brooklyn, N. Y.:  
Gopher Tortoises (2 specimens), Box Tortoises (2 specimens).
- CHAMOUD, MR. PAUL, New York City:  
Box Tortoise.
- CHESEBRO BROS. & ROBBINS, New York City:  
Leatherback Turtle.
- CLAIRE, CAPTAIN W. I., Sheepshead Bay, N. Y.:  
Shark Sucker.
- CONCALEY, MR. FRANK, New York City:  
Box Tortoise.
- CRAUNDY, MISS GERALDINE, New York City:  
Small Alligator.
- CRUICKSHANK, MR. W. H., Big Indian, N. Y.:  
Wood Turtles (4 specimens).
- DAVIS, MR. M. I., New York City:  
Small Alligators (2 specimens).

- DENNIS, MR. A. G., Upper Montclair, N. J.:  
Painted Turtle (3 specimens), Spotted Turtle (3 specimens), Red-bellied Turtle (2 specimens), Cumberland (7 specimens), Texas Mud Turtle (3 specimens), Map Turtle (3 specimens), Yellow Slider (5 specimens), Terrapin, Mud Turtle, Snapper.
- DIFFENBACH, MR. G. M., Brooklyn, N. Y.:  
Small Alligator.
- DIGNER, MR. LEO, Jersey City, N. J.:  
Small Alligator.
- DOOLEY, MISS MARY, New York City:  
Small Turtles (2 specimens).
- DOYLE, MR. JAMES, Richmond, N. Y.:  
Small Alligator.
- DUFFY, MR. DAVIS, Brooklyn, N. Y.:  
Small Alligator.
- ERHARDT, MRS. A., New York City:  
Green Turtle.
- ERMETI, MR. GEORGE, Englewood, N. J.:  
Small Seal.
- ERSKINE, MR. WILLIAM, JR., Upper Montclair, N. J.:  
Wood Turtle.
- EVARTS, MR. R. B., New York City:  
Small Alligator.
- FAIRMOUNT PARK AQUARIUM, Philadelphia, Pa.:  
Red Grouper (8 specimens), Sea Bass (28 specimens), Croaker (3 specimens), Schoolmaster (5 specimens), Gray Snapper (8 specimens), Alligator Snapping Turtle (2 specimens), Yellow Tail, Nassau Grouper, Graysby.
- FINER, MR. ARTHUR, Brooklyn, N. Y.:  
Small Alligator.
- FLEISHER, MR. ERNEST, Passaic, N. J.:  
Small Alligator.
- FRANK, MRS. CARRIE, New York City:  
Box Tortoise.
- FRANK, MISS CLARA, Brooklyn, N. Y.:  
Grebe.
- GOLDBERG, MR. MAXWELL, New York City:  
Ringneck Snake.
- GRANT, MR. MADISON, New York City:  
Wood Turtle, Soft-shelled Turtle.
- GRAUMAN, MR. J., New York City:  
Painted Turtle.
- HUBER, MR. EDWARD F., New York City:  
Small Alligator.
- HUGHES, MR. T. A., Elmhurst, N. Y.:  
Small Alligator.
- IRWIN, MR. WILLIAM, Brooklyn, N. Y.:  
Box Turtle.
- JORDAN, MR. C. A., New York City:  
Moth.
- KAUFMAN, MR. ABRAHAM, New York City:  
Cumberland Turtle.
- KEELER, MR. C. R., Brooklyn, N. Y.:  
Small Alligator.
- KEESE, MISS ETHEL, Brooklyn, N. Y.:  
Box Tortoises (4 specimens).



- KNERR, MR. FREDERICK, Allentown, Pa.:  
Collection of Newts.
- KOWL, MR. LEO, Brooklyn, N. Y.:  
Box Tortoise.
- LAKSENBERG, MR. HARRY, New York City:  
Wood Turtle.
- LARSEN, MR. O. A., Brooklyn, N. Y.:  
Painted Turtle.
- LEBER, MR. ALVIN, West Nyack, N. Y.:  
Collection of Frogg Eggs.
- LESTER, MR. R. C., Staten Island, N. Y.:  
Collection of Tropical Toy Fishes.
- LONGSTREET, MR. CLARENCE, New York City:  
Painted Turtles (2 specimens).
- LOPE, MR. FRANK, New York City:  
Diamondback Turtle.
- LOWY, MR. J. J., New York City:  
Loggerhead Turtle.
- McDERMOTT, MR. JAMES, New York City:  
Box Tortoise.
- McDEVITT, MR. JAMES, Jersey City, N. J.:  
Small Alligator.
- MCGHEE, MISS ADELE E., New York City:  
Lizards (3 specimens).
- MARKEY, MR. B. J., New York City:  
Small Alligators (2 specimens).
- MAURIZIO, MR. ALBERT, Staten Island, N. Y.:  
Snapping Turtle.
- MURRAY, MR. HENRY, New York City:  
Wood Turtle.
- NEW YORK STATE CONSERVATION COMMISSION, Cold Spring Harbor, N. Y.:  
Smelt Eggs (2 quarts), Tomcod Eggs (2 quarts).
- NOBLE, DR. G. K., New York City:  
Sirens (10 specimens).
- ODDO, MASTER JOSEPH, New York City:  
Snapping Turtle.
- OWENS, MR. M., New York City:  
Small Alligator.
- PARK, MR. E., New York City:  
Cumberland Turtles (2 specimens).
- PICCIONE, MR. PASQUALE, New York City:  
Turtle.
- PIERSON, MRS., Staten Island, N. Y.:  
Small Alligator.
- POWELL, MR. ALVIN, Glen Ridge, N. J.:  
Small Alligator.
- RISING, MASTER RUSSELL, Darien, Conn.:  
Bull Frogs (3 specimens).
- ROBERTSON, MR. ROBERT, Brooklyn, N. Y.:  
Dace (6 specimens), Betta Cambodia (2 specimens), Young Bettas (5 specimens), Paradise Fish (2 specimens), Polycentrus, Platypoecilus (12 specimens), Worms (2 Boxes), 5 Aquariums.
- RUSSNAK, MISS MARY, New York City:  
Box Tortoise.
- SANDS, MASTER WILLIE, Brooklyn, N. Y.:  
Snapping Turtle.

- SCHMERHORN, MISS GRACE E., Babylon, N. Y.:  
Turtle, Small Alligator.
- SEMIENICK, MR. EMIL, Jersey City, N. J.:  
Wood Turtle.
- SETNOFKY, MISS LUCY, New York City:  
Box Turtle.
- SEYMORE, MR. W. N., New York City:  
Small Alligator.
- SHELDON, MR. DONALD, Glen Cove, N. Y.:  
Small Alligator.
- SHEWAN, MISS ANNE B., New York City:  
Cumberland Turtle.
- SMITH, MR. HARVEY W., Atlantic Highlands, N. J.:  
Small Alligator.
- SPECTUR, MR. L., New York City:  
Small Alligator.
- SPERO, MR. ALFRED, New York City:  
Box Tortoise.
- SPRIGG, MR. R. M., Brooklyn, N. Y.:  
Turtle.
- SPURR, MR. W. A., New Rochelle, N. Y.:  
Small Alligator.
- STANGLER, MR. KENNETH, Bayonne, N. J.:  
Box Tortoise.
- STERNBERGER, COL. H. S., New York City:  
Small Alligator.
- SWANSON, MR. WILLIAM, Brooklyn, N. Y.:  
Box Tortoise.
- SZABO, MR. P. J., New York City:  
Box Tortoise.
- TEDDY'S FISH MARKET, New York City:  
Red Lobster.
- TEITLER, MR. HENRY, Brooklyn, N. Y.:  
Small Alligator.
- TOWNE, MR. SIDNEY, New York City:  
Sea Gull.
- TWYFORD, MR. J. F., Brooklyn, N. Y.:  
Small Alligator.
- VICTOR, MR. D. E., New York City:  
Small Alligators (4 specimens).
- VOGLER, MR. EDWARD C. H., New York City:  
Mounted Hound Fish.
- VON LENCERKE, MR. E., New York City:  
Painted Turtles (2 specimens), Snapping Turtle.
- WAGNER, MR. B., New York City:  
Snapping Turtle.
- WALDRON, MR. WILLIAM, Brooklyn, N. Y.:  
Painted Turtle.
- WALTHAM BLEACHERY & DYE WORKS, Waltham, Mass.  
Snapping Turtle.
- WELCHER, MR. H. C., Brooklyn, N. Y.:  
Snapping Turtle.
- WILLENBORG, MR. N. J., Weehawken, N. J.:  
Small Alligator.
- WILLIAMS, MR. M., New York City:  
Turtles (2 specimens).

WINTERBURG, MISS FRANCES, Woodside, N. Y.:

Turtle.

WITTE MUSEUM, San Antonio, Texas:

Yellow Belly Slider (9 specimens), Louisiana Mud Turtle (8 specimens), Box Tortoise.

WOLF, MR. ANTHONY A., Long Island City, N. Y.:

Snapping Turtle.

WYBER, MR. JAMES, Brooklyn, N. Y.:

Box Tortoise.

YOUNG, MISS ISABELL, Brooklyn, N. Y.:

Small Alligator, Young Turtle.

YUER, MR. J., New York City:

Cumberland Turtle, Geographic Turtle, Newt.

### The Aquarium Library

With the establishment of proper library facilities and a consequent increase in our collection of books, it becomes impossible to acknowledge each individual item to the many individuals and institutions that have favored us in building up our library of aquatic biology.

#### PURCHASED BY THE SOCIETY

*Salt Water, Local.*—Fishes numbering 1,707, representing 48 species, invertebrates numbering 572, representing 11 species, and 1 turtle were collected by the well-boat *Seahorse*. Quantities of live foods were also secured. Specimens purchased from local fishermen are included. Seventy-eight codfish were purchased at Sheepshead Bay.

*Salt Water, Tropical.*—Nurse Shark, 1; Squirrel Fish, 294; Palometa, 12; Yellow-fin Grouper 11; Rock Hind, 3; Red Hind, 426; Coney, 83; Graysby, 21; Nassau Grouper, 179; Yellow-tail, 31; Mutton Fish, 4; Schoolmaster, 191; Gray Snapper, 4; Spot Snapper, 102; Bastard Grunt, 4; Yellow Grunt, 151; Tom Tate, 118; White Grunt, 479; Blue-striped Grunt, 27; Margate Fish, 58; Porkfish, 17; Sailor's Choice, 3; Grass Porgy, 15; Scotch Porgy, 2; Little-head Porgy, 6; Bermuda Chub, 1; Sergeant Major, 113; Hogfish, 15; Spanish Hogfish, 6; Beau Gregory, 1; Pudding Wife, 4; Mud Parrot, 7; Common Parrot, 3; Blue Parrot, 43; Red Parrot, 3; Green Parrot, 2; Queen Angelfish, 21; Black Angelfish, 71; Blue Angelfish 1; French Angelfish, 2; Townsend's Angelfish, 3; Blue Tang, 4; Brown Tang, 122; Butterfly Fish, 7; Striped Butterfly Fish, 3; Black Triggerfish, 1; Ocean Triggerfish, 17; Queen Triggerfish, 272; Trunkfish, 5; Cowfish, 25; Shellfish, 28; Rock Suet, 5; Porcupine Fish, 6; Sandfish, 26; Goatfish, 4; Remora, 6; Scorpion Fish, 1; White Pelicans, 3; Brown Pelicans, 4. Total 3,108 specimens of 59 species.

*Fresh Water, Local.*—The following were collected by employees of the Aquarium in local park lakes and in southern New Jersey. Chub Sucker, 12; Carp, 20; Goldfish, 200; Shiner, 20; Common Roach, 200; Pearl Roach, 650; Eel, 1; Pickerel, 36; Sunfish, 140; Calico Bass, 3; White Perch, 200. In southern New Jersey lakes and streams, Catfish, 50; Western Catfish, 1; Sucker, 16; Common Roach, 100; Shiner, 100; Silver-finned Shiner, 50; Eel, 33; Banded Pickerel, 3; Grass Pickerel, 22; Sunfish, 150; Banded Sunfish, 231; Mud Sunfish, 40; Spotted Sunfish, 19; Blue-spotted Sunfish, 379; Large-mouthed Bass, 4; Small-mouthed Bass, 48; Calico Bass, 9; Yellow Perch, 84; Leopard Frog, 13; Wood Frog Eggs, 18 clusters. The following were purchased from various parties. Darter, 15; Red-bellied Dace, 50; Chub Sucker, 10; Necturus, 15; Congo Eel, 10; Mirror Carp, 24; Sucker, 11; Buffalo Fish, 17; Burbot, 1. Painted Turtle, 71; Musk Turtle, 1; Spotted Turtle, 2.

*Fresh Water, Tropical.*—The following were purchased from various dealers. Pimelodus, 3; Corydoras, 6; Loricaria, 6; Plecostomus, 6.

## Summary of Membership

Benefactors .....	7
Founders in Perpetuity .....	11
Founders .....	9
Associate Founders .....	13
Patrons .....	36
Life Members .....	395
Annual Members .....	2,161
Honorary Members .....	8
<i>(Total)</i> .....	<hr/> 2,640
Ladies' Auxiliary .....	37
Junior Auxiliary .....	323
Honorary Life .....	15
Fellows .....	45
Corresponding Members .....	15
Sustaining Members .....	9

*Corrected to January 1, 1930.*

MEMBERS OF  
*The New York Zoological Society*

January 1, 1930

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GOULD, EDWIN,  
HARKNESS, EDWARD S.,  
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SCHIFF, MORTIMER L.,  
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WILLIAMS, HARRISON,

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 \*JAMES, DR. WALTER B.,  
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 LUCINGE, PRINCESS AYMON DE F.,

\* DECEASED

\*MCALEENAN, JOSEPH A.  
 \*MAYOR, DR. ALFRED G.,  
 MORGAN, J. P.,  
 MORRIS, NEWBOLD,  
 \*MORRIS, A. NEWBOLD,  
 \*MORRIS, MRS. A. NEWBOLD,  
 OSBORN, WILLIAM CHURCH,  
 \*OSBORN, MRS. WILLIAM H.,  
 PAUL, JOHN J.,  
 \*PHOENIX, LLOYD,  
 \*POOR, HENRY W.,  
 \*PYNE, MRS. PERCY R.,  
 ROGERS, MRS. GRACE RAINEY,  
 RYAN, THOMAS F.,  
 \*SCHERMERHORN, WILLIAM C.,  
 \*SELIGMAN, ISAAC NEWTON,  
 \*SENFF, CHARLES H.,  
 SIMPSON, MISS JEAN WALKER,

\*STICKNEY, JOSEPH,  
 TAYLOR, JAMES B., JR.,  
 THORNE, FRANCIS B.,  
 THORNE, HENRY S.,  
 THORNE, LANDON K.,  
 \*THORNE, MRS. SAMUEL,  
 THORNE, S. BRINCKERHOFF,  
 THORNE, VICTOR C.,  
 \*THORNE, W. V. S.,  
 \*THORNE, WILLIAM,  
 \*TILFORD, H. M.,  
 TJADER, RICHARD THORNE,  
 \*TWOMBLY, H. McK.,  
 UHL, OSWALD W.,  
 VANDERBILT, WM. K.,  
 \*VON POST, HERMAN C.,  
 \*WEBB, WILLIAM H.,  
 WHITNEY, HARRY,  
 \*WOLFF, A.,

#### Life Members

ADAMS, EDWARD DEAN,  
 AGNEW, CORNELIUS R.,  
 AGNEW, GEORGE B.,  
 \*AKELEY, CARL E.,  
 ALDRIDGE, WALTER H.,  
 \*ANDREWS, CONSTANT A.,  
 \*ANDREWS, J. SHERLOCK,  
 ARMOUR, ALLISON V.,  
 ARNOLD, EDWARD W. C.,  
 \*AUCHINCLOSS, HUGH D.,  
 BACON, WENTWORTH C.,  
 BAKER, H. MARTYN,  
 BALDWIN, JOSEPH C., JR.,  
 BALDWIN, S. PRENTISS,  
 \*BALLANTINE, ROBERT F.,  
 BALLARD, MISS ROSAMOND,  
 BARBEY, HENRY G.,  
 BARBOUR, THOMAS,  
 \*BARBOUR, WILLIAM,  
 \*BARHYDT, MRS. P. HACKLEY,  
 BARNARD, FREDERIC,  
 \*BARNES, MISS CORA F.,  
 BARNES, J. SANFORD,

BARUCH, BERNARD M.,  
 BATES, MRS. H. ROSWELL,  
 BATTLE, GEORGE GORDON,  
 BEACH, CHARLES C., M.D.,  
 BEERBOWER, GEO. M.,  
 \*BELL, MRS. C. M.,  
 BELL, DENNISTOUN M.,  
 BELL, GORDON KNOX,  
 \*BELMONT, AUGUST,  
 BEMENT, EDWARD,  
 BETTS, SAMUEL ROSSITER,  
 BIBB, WILLIAM G.,  
 BING, LEO S.,  
 BINGHAM, HARRY PAYNE,  
 BINNS, WALTER,  
 BIRD, CHARLES SUMNER,  
 \*BISHOP, HEBER REGINALD,  
 BLACK, JAMES D.,  
 \*BLACKFORD, EUGENE G.,  
 BLAIR, DR. W. REID,  
 BLISS, ROBERT W.,  
 BLISS, MRS. ROBERT W.,  
 \*BLODGETT, WILLIAM TILDON,

\* DECEASED

- BLOOMINGDALE, IRVING I.,  
 \*BOLDT, GEORGE C.,  
 BOLE, BENJAMIN PATTERSON, JR.,  
 \*BOND, FRANK S.,  
 BOOTH, WILLIAM H.,  
 BOURNE, GEORGE G.,  
 BOURNE, MISS MARION C.,  
 \*BOWDOIN, GEORGE S.,  
 \*BOWDOIN, TEMPLE,  
 BOWMAN, JOHN McE.,  
 BRADLEY, JOHN R.,  
 BRAMAN, CHESTER A.,  
 BREITENBACH, M. J.,  
 BREWSTER, FREDERICK F.,  
 BRINSMADE, CHARLES LYMAN,  
 BROUGHTON, MRS. U. H.,  
 BROWN, GEORGE MCKESSON,  
 \*BRUCE, MISS MATILDA W.,  
 BUCH, MISS EMILY,  
 BUCKNER, MORTIMER NORTON,  
 BULL, MISS DOROTHY,  
 BURCHARD, ANSON W.,  
 BURDEN, HENRY, 2ND,  
 BURLEIGH, GEORGE W.,  
 BURR, WINTHROP,  
 BURRAGE, REAR ADMIRAL GUY H.,  
     U. S. N.,  
 \*BUSHNELL, JOSEPH,  
 BUTLER, WILLIAM MILL,  
 CALLENDER, WALTER R.,  
 \*CAMMAMANN, GEORGE P.,  
 \*CAMP, HUGH N.,  
 \*CANFIELD, RICHARD A.,  
 CARMICHAEL, CAPT. J. C.,  
 CARTER, JAMES WALTER,  
 CARY, GUY,  
 CASEY, EDWARD PIERCE,  
 CAULDWELL, DR. CHARLES MILBANK,  
 CERERO, R. L.,  
 CHANLER, WINTHROP,  
 CHAPIN, CHARLES MERRILL,  
 \*CHAPIN, CHESTER W.,  
 CHISHOLM, HUGH J., JR.,  
 CHISHOLM, MRS. HUGH J.,  
 CHRISTOPHER, SAMUEL,  
 \*CHURCH, E. DWIGHT,  
 CHURCH, FREDERICK E.,  
 CHURCH, MRS. NELLIE E.,  
 CHURCH, WILLARD,  
 \*CHURCH, WILLIAM CONANT,  
 CLARK, F. AMBROSE,  
 CLARK, MISS ZELINA T.,  
 CLARKSON, BANYER,  
 CLOSE, EDWARD B.,  
 COE, WILLIAM R.,  
 COFFIN, CHARLES A.,  
 COLGATE, WILLIAM,  
 \*COLLIER, ROBERT J.,  
 \*COLLORD, GEORGE W.,  
 \*COLLORD, MRS. GEORGE W.,  
 \*COLT, SAMUEL P.,  
 CONDON, THOMAS GERALD,  
 CONSTABLE, MRS. FREDERICK A.,  
 \*CONYNTHAM, WILLIAM L.,  
 \*COOK, C. T.,  
 COOPER, MRS. CHARLES W.,  
 CORMAN, S. WILBUR,  
 \*CORNING, JOHN J.,  
 CORY, DANIEL W.,  
 \*COKE, DAVIES,  
 \*CRANE, ZENAS,  
 CRANE, Z. MARSHALL,  
 \*CRIMMINS, JOHN D.,  
 CROSS, W. REDMOND,  
 CURTIS, F. K.,  
 \*CUTLER, C. C.,  
 DANA, CHARLES A.,  
 DANA, WILLIAM SHEPHERD,  
 \*DAVIS, E. W.,  
 \*DAVIS, JOHN W. A.,  
 DAVIS, WILLIAM T.,  
 \*DECOPPET, EDWARD J.,  
 DEERING, CHARLES,  
 DEFORD, HENRY W.,  
 \*DEHEREDIA, C.,  
 DELAFIELD, ALBERT,  
 DEMILHAU, LOUIS JOHN,  
 DERHAM, CHARLES,

DERHAM, MRS. H. CASIMIR,  
 DE WITT, WILLIAM G.,  
 \*DICK, J. HENRY,  
 DICKERMAN, DONALD,  
 DICKERMAN, MRS. WATSON B.,  
 \*DICKY, CHARLES D.,  
 DIETZ, MRS. C. N.,  
 DIMOCK, MRS. HENRY F.,  
 DISSTON, HENRY, JR.,  
 DITMARS, R. L.,  
 DODD, MISS GERTRUDE,  
 DODGE, MRS. CLEVELAND H.,  
 \*DODGE, GEORGE EGLESTON,  
 DODGE, MARCELLUS HARTLEY,  
 DOELGER, CHARLES P.,  
 DOELGER, PETER,  
 DOSCHER, CHARLES,  
 DOUGLAS, ARCHIBALD, JR.,  
 \*DOUGLAS, JAMES,  
 DOWD, JOSEPH,  
 \*DRAPER, MRS. HENRY,  
 DRESSLER, OSCAR,  
 DUBOIS, MISS ETHEL,  
 DUBOIS, MISS KATHARINE,  
 \*DUBOIS, WILLIAM A.,  
 DUGMORE, A. RADCLYFFE,  
 DUNHAM, EDWARD K.,  
 DUNN, GANO,  
 DUNSCOMBE, GEORGE ELLSWORTH,  
 \*DUPONT, MRS. WILLIAM,  
 DWYER, THOMAS,  
 \*EDGAR, NEWBOLD,  
 EDGE, MRS. CHARLES NOEL,  
 \*ELLIOT, SAMUEL,  
 ELLIS, W. DIXON,  
 ELMHIRST, MRS. LEONARD,  
 ELY, AMBROSE K.,  
 EMMET, C. TEMPLE,  
 \*ENO, AMOS F.,  
 ERDMANN, DR. JOHN F.,  
 EVARTS, ALLAN W.,  
 FAGAN, CHARLES L.,  
 \*FAIRCHILD, HON. CHARLES S.,  
 FARNHAM, PAULDING,

\*FEARING, GEORGE R.,  
 \*FIELD, CORTLANDT DEPEYSTER,  
 FIELD, WILLIAM B. OSGOOD,  
 FIELD, MRS. WILLIAM B. OSGOOD,  
 FILLEY, OLIVER D.,  
 FISHER, MRS. HENRY J.,  
 FISHER, JOEL ELLIS,  
 FLEITMANN, WILLIAM MEDLICOTT,  
 FLINT, CHARLES R.,  
 FORD, HENRY,  
 FOSDICK, RAYMOND B.,  
 FOSTER, EUGENE G.,  
 FOWLER, A. A.,  
 FRASER, MISS S. GRACE,  
 \*FRENCH, S. BARTON,  
 FRERE, HAROLD,  
 FRICK, CHILDS,  
 FROST, LE ROY,  
 FUGUET, HOWARD,  
 FULLER, MRS. EUGENE,  
 GAMMELL, WILLIAM,  
 \*GARNER, R. L.,  
 \*GERRY, ELBRIDGE T.  
 GIFFORD, DR. HAROLD,  
 GOODHART, HOWARD L.,  
 GOODRIDGE, MRS. F. G.,  
 \*GOODWIN, JAMES J.,  
 \*GOULD, GEORGE H.,  
 GRANT, DE FOREST,  
 GRINNELL, GEORGE BIRD,  
 GUGGENHEIM, DANIEL,  
 GUGGENHEIM, S. R.,  
 GUNTHER, BERNARD G.,  
 GUNTHER, FRANKLIN L.,  
 GUTHRIE, WILLIAM D.,  
 \*HAGENBECK, CARL,  
 HAGENBECK, HEINRICH,  
 HAGENBECK, LORENZ,  
 \*HAGGIN, LOUIS T.,  
 HALLS, WILLIAM, JR.,  
 HALSEY, HERBERT DRAKE,  
 HAMILTON, PIERPONT MORGAN,  
 HARDING, J. HORACE,  
 HARKNESS, MRS. EDWARD S.,

\* DECEASED

- \*HARKNESS, MRS. S. V.,  
 HARKNESS, MRS. WILLIAM L.,  
 HARRAH, CHARLES J.,  
 HARRIMAN, MRS. E. H.,  
 HARRIS, ALAN C.,  
 HARRISON, ARCHIBALD,  
 \*HARRISON, SIR J. B., C.M.G., M.A.,  
 HART, FRANK,  
 HARVEY, ELL,  
 HAUPT, DR. LOUIS,  
 HAVEMEYER, F. C.,  
 HAVEMEYER, THEODORE A.,  
 \*HAVEN, GEORGE G.,  
 \*HEARN, GEORGE A.,  
 \*HENDERSON, CHARLES R.,  
 HENNESSY, HON. JOSEPH P.,  
 HEPBURN, MRS. A. BARTON,  
 HIGGINSON, JAMES J.,  
 HIGGINSON, MRS. JAMES J.,  
 \*HIGGINSON, JAMES J.,  
 HILL, CLARENCE H.,  
 \*HILL, HUGH,  
 HILLS, MRS. JOHN,  
 \*HINCHMAN, WALTER,  
 \*HITCH, MRS. FREDERICK DELANO,  
 \*HOE, MISS MARGARET,  
 \*HOE, RICHARD M.,  
 HOE, MRS. RICHARD M.,  
 HOLMES, C. R.,  
 \*HOPKINS, GEORGE B.,  
 \*HOYT, THEODORE R.,  
 HUBBARD, JOHN,  
 \*HUBBARD, THOMAS H.,  
 HUNT, RICHARD H.,  
 \*HUNTINGTON, H. E.,  
 HUSSEY, FREDERICK,  
 HYDE, MRS. CLARENCE M.,  
 HYDE, JAMES HAZEN,  
 INGALLS, MRS. F. ABBOT, JR.,  
 IRWIN, JOHN V.,  
 ISELIN, ADRIAN,  
 ISELIN, COLUMBUS O. D.,  
 \*ISLER, PAUL A.,  
 \*JACKSON, THEODORE F.,  
 JACKSON, DR. VICTOR H.,  
 JAMES, ARTHUR CURTISS,  
 JENNINGS, OLIVER G.,  
 JENNINGS, MRS. OLIVER G.,  
 JONES, CHARLES H.,  
 JONES, MRS. EDWARD H.,  
 \*JUILLIARD, MRS. A. D.,  
 KAHN, OTTO H.,  
 KANE, GRENVILLE,  
 \*KANE, JOHN INNES,  
 KELLEY, MRS. DAVID J.,  
 KEYES, MRS. CHARLES W.,  
 KEYSER, SAMUEL S.,  
 KIDDER, NATHANIEL T.,  
 \*KING, GEORGE GORDON,  
 \*KINGSLAND, WILLIAM M.,  
 \*KISSEL, GUSTAV E.,  
 KRECH, DR. SHEPARD,  
 KUNHARDT, W. B.,  
 KUSER, MRS. ANTHONY R.,  
 LADD, WALTER G.,  
 LAFARGE, C. GRANT,  
 LAMONT, MISS ELIZABETH K.,  
 \*LANGDON, WOODBURY,  
 \*LANIER, CHARLES,  
 LAPHAM, LEWIS H.,  
 LEE, CHARLES NORTHAM,  
 \*LEEDS, MRS. WARNER M.,  
 LEHMAN, S. M.,  
 LINCOLN, EDWARD K.,  
 LOCHRIE, JOHN,  
 LOEB, MRS. MORRIS,  
 LOOMIS, ALFRED L.,  
 \*LOUNSBERY, BEN-ALI H.,  
 \*LOUNSBERY, RICHARD P.,  
 \*LOW, C. ADOLPHE,  
 \*LOW, SETH,  
 \*LYDIG, DAVID,  
 LYDIG, CAPT. PHILIP M.,  
 McALPIN, CHARLES WILLISTON,  
 McCOMB, JENNINGS SCOTT,  
 MCKAY, ROBERT GORDON,  
 MCKEE, HON. JOSEPH V.,  
 McKEEVER, I. C.,

\* DECEASED



\*McKIM, CHARLES F.,  
McKINNEY, GLENN FORD,  
\*McLANE, GUY RICHARDS,  
McLEAN, MRS. JAMES,  
McMILLIN, MARION,  
\*MACKAY, DONALD,  
MACY, V. EVERIT,  
MADEIRA, PERCY C.,  
MAHAFFIE, MRS. C. D.  
\*MAITLAND, ALEXANDER,  
MALLORY, CHARLES H.,  
\*MARC, THEOPHILUS M.,  
\*MARKOE, DR. FRANCIS H.,  
MARLING, ALFRED E.,  
MARMON, MRS. ELIZABETH C.,  
MARSHALL, LOUIS,  
MATHSON, WILLIAM J.,  
\*MAXWELL, ROBERT,  
MEAD, MRS. WINTER,  
MERKEL, HERMANN W.,  
MERLE-SMITH, MRS. VAN S.  
METCALF, JESSE,  
\*METCALF, MANTON B.,  
METZ, HERMAN A.,  
MILBANK, DUNLEVY,  
MILBANK, JEREMIAH,  
MILLER, DR. GEORGE N.,  
MILLS, OGDEN L.,  
\*MILTON, MRS. WILLIAM F.,  
\*MITCHELL, A. M. POST,  
MITCHELL, FRANCIS L.,  
MITCHELL, H. R.,  
MITCHELL, HON. MASON,  
\*MITCHELL ROLAND G.,  
MITCHELL, WILLIAM,  
MONAELESSER, DR. ADOLPH,  
\*MONELL, AMBROSE,  
MOORE, CHARLES ARTHUR, JR.,  
MOORE, FREDERIC P.,  
\*MOORE, MRS. JAMES AMORY,  
MORAN, DANIEL E.,  
\*MORGAN, MRS. J. P., JR.,  
MORGAN, JUNIUS S.,  
\*MORRIS, JAMES,

MORRIS, MRS. LEWIS RUTHERFURD,  
MOWBRAY, LOUIS L.,  
NESBITT, ABRAM,  
NESBITT, SAMUEL,  
NEWBOLD, THOMAS,  
NEWLAND, V. M.,  
NICHOLS, MRS. WILLIAM GILMAN,  
NILES, MISS FLORILLA,  
NILES, J. BARRON,  
NILES, WILLIAM WHITE,  
NILES, MRS. WILLIAM WHITE,  
NORTON, JOHN W.,  
NUNAN, HON. J. J.,  
\*NYE, JOSEPH K.,  
O'MALLEY, HENRY,  
OSBORN, MRS. HENRY FAIRFIELD,  
OSBORN, HENRY FAIRFIELD, JR.,  
OSBORN, MRS. WILLIAM CHURCH,  
OSBURN, DR. RAYMOND C.,  
PACK, ARTHUR NEWTON,  
PACK, ARTHUR N.,  
PAINTER, KENYON V.,  
\*PARISH, HENRY,  
PARKER, A. W.,  
PARRISH, JAMES C.,  
PARSONS, MRS. JOHN D., JR.,  
PEABODY, CHARLES A.,  
PERKINS, WILLIAM H.,  
\*PETERS, SAMUEL T.,  
PETERS, THEODORE,  
\*PETERS, MRS. THEODORE,  
PETERS, THOMAS M.,  
PFEIFFER, CURT G.,  
PHELPS, JOHN J.,  
PHILLIPS, WILLIAM P.,  
PHILLIPS, DR. JOHN C.,  
PHILLIPS, JOHN M.,  
PHIPPS, HENRY,  
PHIPPS, HENRY C.,  
\*PHOENIX, PHILLIPS,  
PIERCE, HENRY CLAY,  
PIERREPONT, MISS ANNA JAY,  
\*PIERREPONT, JOHN J.,  
PIERREPONT, ROBERT L.,

\* DECEASED

- PIERREPONT, SETH LOW,  
\*PINCHOT, J. W.,  
POND, JAMES B.,  
\*PORTER, CLARENCE,  
\*POTTER, MRS. HENRY C.,  
POTTER, WILSON,  
PRATT, DALLAS B.,  
PRATT, HAROLD I.,  
PROCTER, A. PHIMISTER,  
PULITZER, RALPH,  
PUTNAM, GEORGE P.,  
\*PYNE, M. TAYLOR,  
QUINLAN, MISS FLORENCE E.,  
\*QUINTARD, GEORGE W.,  
RAYMOND, CHARLES H.,  
REED, MISS BERTHA M.,  
RENNER, CHARLES J.,  
RICE, ALEXANDER HAMILTON,  
RICE, MRS. ALEXANDER HAMILTON,  
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RIKER, JOHN J.,  
RIKER, SAMUEL, JR.,  
\*ROBB, J. HAMPDEN,  
\*ROBBINS, MILTON,  
ROBINSON, ARTHUR,  
ROCKEFELLER, MRS. WILLIAM G.,  
RODEWALD, F. L.,  
\*ROGERS, ARCHIBALD,  
ROGERS, JAMES GAMBLE, JR.,  
ROOSEVELT, KERMIT,  
RUCKER, WILLIAM J.,  
RUNGIUS, CARL,  
RUTHERFURD, WINTHROP,  
RYLE, WILLIAM,  
\*ST. JOHN, FRANK L.,  
\*SALTERS, J. SANFORD,  
SAMPSON, HENRY,  
SANBORN, ELWIN R.,  
\*SANDS, WILLIAM R.,  
SANFORD, HENRY,  
SANFORD, HENRY, JR.,  
SANFORD, SAMUEL S.,  
\*SANGER, FAIRFIELD OSBORN,  
\*SARGENT, HENRY B.,  
SATTERLEE, HERBERT L.,  
SATTERLEE, MRS. HERBERT L.,  
SCARRITT, H. S.,  
\*SCHERMERHORN, J. EGMONT,  
\*SCHIEFFELIN, EUGENE,  
SCHIEFFELIN, SCHUYLER,  
SCHLEY, EVANDER B.,  
SCHLEY, K. B.,  
SCHWARZENBACH, ROBERT J. F.,  
SCOTT, STEVENSON,  
SCOVILLE, MISS GRACE,  
SEMKEN, DR. GEORGE H.,  
SETON, ERNEST THOMPSON,  
SHARPE, HENRY D.,  
SHEARSON, EDWARD,  
\*SHELDON, CHARLES,  
SHERMAN, GEORGE,  
\*SHERMAN, WILLIAM WATTS,  
SHEWAN, JAMES,  
\*SHIELDS, GEORGE O.,  
SLATER, H. N.,  
SLOAN, BENSON B.,  
\*SLOAN, JOHN,  
\*SLOAN, SAMUEL,  
SLOAN, SAMUEL,  
SLOANE, MALCOLM D.,  
SMITH, JAMES A.,  
SMITH, JAMES VINCENT,  
SOTHER, LE ROY,  
SPEYER, JAMES,  
SQUIBB, DR. EDWARD H.,  
SQUIER, STUART C.,  
\*STETSON, FRANCES LYNDE,  
STEWART, WILLIAM R., JR.,  
STOKES, MISS OLIVIA E. PHELPS,  
STONE, ROBERT G.,  
STRAUSS, CHARLES,  
STREETER, D. D.,  
\*STURGES, FREDERICK,  
STURGES, FREDERICK, JR.,  
SWAN, MRS. J. ANDREWS,  
TABER, MISS MARY,  
TABLTON, LESLIE JEFFERIS,  
TAYLOR, FRANK J.,

\* DECEASED

- |                                 |                                |
|---------------------------------|--------------------------------|
| *THALMAN, ERNST,                | WATSON, JAMES S.,              |
| THOMPSON, MRS. J. TODHUNTER,    | WEBB, MRS. ALEXANDER S.,       |
| THOMPSON, LEWIS S.,             | WEBB, WATSON,                  |
| *THOMPSON, WILLIAM P.,          | *WEBB, DR. W. SEWARD,          |
| THORNE, MRS. EDWIN,             | WEBSTER, HAMILTON FISH,        |
| THORNE, MRS. W. V. S.,          | *WELCHER, MRS. FANNY AVERY,    |
| *TILFORD, FRANK,                | WELLS, MRS. OLIVER J.,         |
| TILFORD, MRS. HENRY MORGAN,     | *WENDELL, EVERT JANSEN,        |
| TOD, ROBERT E.,                 | *WETMORE, CHARLES W.,          |
| TODD, WILLIAM H.,               | *WETMORE, GEORGE PEABODY,      |
| TODD, WILLIAM R.,               | WHARTON, WILLIAM P.,           |
| TOWNSEND, DR. CHARLES H.,       | WHEALTON, LOUIS N.,            |
| TREVOR, HENRY G.,               | WHITE, EDWARD,                 |
| TREVOR, JOHN B.,                | *WHITE, JOHN JAY,              |
| TRITTON, CLAUDE H.,             | WHITEHEAD, MRS. JOHN JAY,      |
| TUCK, EDWARD,                   | *WHITEHEAD, PAUL,              |
| TUPER, DR. CHARLES C.,          | WHITMAN, MALCOLM D.,           |
| UHLMANN, FREDERICK,             | *WHITNEY, CASPAR,              |
| UPPERCU, INGLIS M.,             | WHITNEY, CORNELIUS VANDERBILT, |
| *VAIL, THEODORE N.,             | WHITNEY, HARRY PAYNE,          |
| *VANDERBILT, ALFRED G.,         | *WHITNEY, PAYNE,               |
| VAN DER SMISSEN, DR. G. J.,     | WILLETS, ELMORE A.,            |
| VAN NORDEN, MRS. GRACE TALCOTT, | WILLETS, HOWARD,               |
| VAN RENSSELAER, CHARLES A.,     | WILLIAMS, CLARK,               |
| VARNUM, MRS. JAMES M.,          | WILLIAMS, WILLIAM,             |
| *WADSWORTH, MAJOR W. AUSTIN,    | *WING, JOHN D.,                |
| WADSWORTH, MRS. W. A.           | WING, JOHN MORGAN,             |
| WAID, D. EVERETT,               | WINTHROP, BECKMAN,             |
| WAINWRIGHT, RICHARD T.,         | *WINTHROP, EGERTON L.,         |
| *WALKER, DR. HENRY FREEMAN,     | *WITHERS, GEORGE B.,           |
| *WANAMAKER, RODMAN,             | WOERISHOFFER, MRS. ANNA,       |
| WARBURG, FELIX M.,              | WOOD, DR. CASEY A.,            |
| *WARREN, SAMUEL D.,             | WOODWARD, WILLIAM,             |
| *WATSON, FRANCIS A.,            | *WORTHINGTON, C. C.,           |

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| MRS. H. CASIMIR DE RHAM,   | MRS. HENRY M. TILFORD,        |
| MRS. WILLIAM A. WADSWORTH, |                               |

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HAVEMEYER, F. C.,	*STEWART, LISPENARD,
*HOE, RICHARD M.,	STURGIS, FRANK K.,
HOE, MRS. RICHARD M.,	WILSON, PROF. EDMUND B.,

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ABERCROMBIE, DAVID,	ANSBACHER, LOUIS A.,
ABERT, BENJAMIN,	APPLEBY, MRS. JOHN STORM,
ACHELIS, JOHN,	APPLETON, FRANCIS R.,
ACHELIS, JOHNFRIEZ,	APPLETON, JAMES W.,
ADAMS, CHARLES E.,	ARCHBOLD, JOHN F.,
ADAMS, FREDERICK B.,	ARCHBOLD, MRS. J. F.,
ADAMS, HENRY S.,	AREND, F. J.,
ADAMS, JOHN DUNBAR,	ARGABRITE, N. M.,
ADAMS, DR. WARREN S.,	ARKUSH, REUBEN,
ADAMS, MRS. WILLIAM CRITTENDEN,	ARMOUR, GEORGE A.,
ADDINSELL, H. M.,	ARMSTRONG, F. F.,
ADEE, GEORGE T.,	ARNOLD, MISS MARY SELENA,
ADLER, J. A.,	ARNOLD, PAUL,
AGNEW, MRS. CORNELIUS R.,	ARTZ, C. WALTER,
AHRENS, HENRY A.,	ASCHE, SIDNEY L.,
ALDRICH, WINTHROP W.,	ASPINWALL, J. LAWRENCE,
ALDRICH, MRS. WINTHROP W.,	ASSMUTH, REV. JOSEPH,
ALEXANDER, MRS. CHARLES B.,	ATTRIDGE, MRS. ELLA M.,
ALEXANDER, BART., SIR DOUGLAS,	ATWATER, CHARLES B.,
ALI, MRS. GEORGE D.,	ATWATER, MRS. WILLIAM C.,
ALKER, JAMES WARD,	ATWOOD, KIMBALL C.,
ALLEN, ETHAN,	AUCHINCLOSS, C. C.,
ALLEN, FREDERIC WINTHROP,	AUCHINCLOSS, MRS. C. C.,
ALLEN, JAMES F.,	AUCHINCLOSS, MRS. E. S., SR.,
ALLIEN, FREDERICK,	AUCHINCLOSS, MRS. EDGAR S., JR.,
ALTSCHUL, MISS CLARA,	AUCHINCLOSS, HUGH,
AMEND, CARL G.,	AUCHINCLOSS, JAMES C.,
AMS, CHARLES M.,	AUCHINCLOSS, JOHN W.,
ANDERSON, P. CHAUNCEY,	AUERBACH, JOHN H.,
ANDERSON, MRS. WILLIAM,	AUSTIN, CHELLIS A.,
ANDREINI, J. M.,	AYCRIGG, MRS. BENJAMIN ARTHUR,
ANDREWS, GEN. AVERY D.,	AYRES, MRS. ALFRED B.,

\* DECEASED



BABCOCK, WOODWARD,  
BACHE, JULES S.,  
BACON, EDGAR MAYHEW,  
BACON, MRS. FRANCIS MCNIEL,  
BACON, GEORGE W.,  
BACON, MRS. ROBERT,  
BAERWALD, MRS. PAUL,  
BAGG, MRS. CLINTON L.,  
BAHNSEN, C.,  
BAILEY, MRS. JAMES M.,  
BAILLY, EDWARD C.,  
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BAKER, GEORGE R.,  
BAKER, JOHN H.,  
BAKER, JOHN STEWART,  
BAKER, J. WHITNEY,  
BAKER, STEPHEN,  
BAKIMETEFF, DORIS A.,  
BALDWIN, HENRY DEFOREST,  
BALDWIN, JAMES H.,  
BALDWIN, JARED G.,  
BALL, FRANK B.,  
BALLANTINE, ARTHUR A.,  
BALLARD, EDWARD L.,  
BALLARD, SUMNER,  
BAMBERGER, LOUIS I.,  
BANGS, FRANCIS,  
BANGS, HENRY McCOMB,  
BANKS, THEODORE H.,  
BANNARD, OTTO T.,  
BARBER, THOMAS H.,  
BARBOUR, F. K.,  
BARCLAY, MRS. REGINALD,  
BARDACH, JOSEPH,  
BARKER, DR. PERCIVAL M.,  
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BARNES, COURTLANDT D.,  
BARNES, COURTLANDT D., JR.,  
BARNES, HENRY B.,  
BARNES, JAMES,  
BARNETT, CHESTER P.,  
BARNEY, ASHBELL H.,  
BARNEY, EDGAR S., SC.D.,  
BARNEY, MRS. J. STEWART,  
BARR, MARK,

BARRET, CECIL,  
BARRON, GEORGE D.,  
BARRYMORE, JOHN,  
BARSTOW, MRS. F. Q.,  
BARTELS, HENRY,  
BARTLETT, PHILIP G.,  
BARTOL, HENRY G.,  
BARTON, EDWARD RITTENHOUSE,  
BARTON, GEORGE DE FOREST,  
BARTON, OTIS,  
BARTON, RALPH,  
BASS, DR. MURRAY H.,  
BASS, ROBERT,  
BATES, FRANK C.,  
BATESON, RICHARD H.,  
BAUCHLE, THOMAS H., JR.,  
BAXTER, MRS. DON A.,  
BAYLIES, EDMUND L.,  
BAYNE, MRS. L. P.,  
BEACH, GOODWIN BATTERSON,  
BEACH, WILLIAM N.,  
BEADLESTON, MISS EDITH,  
BEAL, MRS. ROBERT C.,  
BEALE, PHELAN,  
BEALL, C. W.,  
BEALL, JEREMIAH,  
BEDLE, MISS JOSEPHINE D.,  
BEEKMAN, CHARLES K.,  
BEEKMAN, FENWICK, M.D.,  
BEERS, MISS M. ELISABETH,  
BEERS, MRS. E. LEGRAND,  
BEHREND, DR. OTTO F.,  
BELKNAP, HENRY W.,  
BELL, WALTER E.,  
BELL, WILLIAM B.,  
BELLER, A.,  
BELLER, WILLIAM F.,  
BENEDICT, LEMUEL C.,  
BENJAMIN, MRS. WILLIAM M.,  
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BERNHEIM, HENRY J.,  
BERNHEIMER, CHARLES L.,  
BERTRON, S. R.,  
BEST, MRS. CHARLES B.,  
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BIDDLE, MISS EDITH FRANCIS,  
BIDDLE, WILLIAM C.,  
BIER, MRS. SYLVAN,  
BIGGS, MRS. HERMANN M.,  
BIKOFF, ZAFFAR X.,  
BILL, EDWARD LYMAN,  
BILLINGS, C. K. G.,  
BING, ALEXANDER M.,  
BINNEY, EDWIN,  
BIRCHALL, MRS. F. T.,  
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BISLAND, P. E.,  
BISPHAM, GEORGE TUCKER,  
BISSINGER, GEORGE H.,  
BISTANY, GEORGE M.,  
BIXBY, HENRY D.,  
BLACK, MRS. ROBERT C.,  
BLAGDEN, GEORGE,  
BLAGDEN, MRS. JULIA G.,  
BLAGDEN, MEREDITH,  
BLAIR, DR. BRUCE,  
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BLODGETT, THOMAS H.,  
BLOODGOOD, ROBERT F.,  
BLOOMINGDALE, MRS. JOSEPH B.,  
BLUMENTHAL, HUGO,  
BLUMENTHAL, SIDNEY,  
BOARDMAN, MRS. BRADFORD,  
BOARDMAN, KENNETH,  
BOARDMAN, MRS. KENNETH,  
BOARDMAN, MISS R. C.,  
BOESE, QUINCY WARD,  
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BOLES, EDGAR H.,  
BOLSTER, HAROLD,  
BOLTON, MISS ELLA F.,  
BOLTON, WILLIAM H.,  
BOND, STEPHEN N.,  
BORIE, A. E.,  
BORLAND, J. NELSON,  
BOWDOIN, MISS EDITH G.,  
BOWDOIN, GEORGE TEMPLE,  
BOWEN, CLARENCE WINTHROP,  
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BOWERS, SPOTSWOOD DANDRIDGE,  
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BOYDEN, DWIGHT F.,  
BRACE, MRS. ROBERT N.,  
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BRADLEY, MISS MARY T.,  
BRADY, NICHOLAS F.,  
BRAND, ALBERT R.,  
BREWSTER, GEORGE S.,  
BREWSTER, MRS. ROBERT S.,  
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BRIGHAM, STORRS,  
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BRISTOW, WILLIAM B.,  
BROKAW, CLIFFORD V.,  
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BROMLEY, CHESTER,  
BROOKS, CHESTER K.,  
BROOKS, FREDERICK,

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BRUNSWICK, MRS. EMANUEL,  
BRYAN, BENJAMIN B.,  
BRYCE, MISS MARY T.,  
BUCKLE, LEWIS M.,  
BUCKLEY, B. LORD,  
BUCKNER, THOMAS A.,  
BUDD, HENRY A.,  
BUECHNER, C. FRED,  
BUGBEE, DR. HENRY G.,  
BUHRMAN, T. SCOTT,  
BULKLEY, EDWIN M.,  
BULKLEY, MRS. EDWIN M.,  
BULKLEY, JONATHAN,  
BULKLEY, MRS. JONATHAN,  
BULKLEY, J. O.,  
BULLOCK, GEORGE,  
BUMSTED, CLARENCE VAN R., M.D.,  
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BURDEN, JAMES A.,  
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BURGESS, THORNTON W.,  
BURHORN, EDWIN,  
BURKE, JOHN,  
BURLEIGH, MRS. GEORGE W.,  
BURLINGHAM, CHARLES C.,  
BURNHAM, GORDON W.,  
BURR, GEORGE L.,  
BURRELL, WILLIAM S.,  
BURRILL, EDWARD L.,  
BUSH, MRS. D. FAIRFAX,

BUSH, JAMES I.,  
BUTLER, ARTHUR W.,  
BUTLER, CHARLES STEWART,  
BUTLER, FRANCIS X.,  
BUTLER, LOUIS F.,  
BYRNE, MRS. JAMES,  
CABOT, F. H.,  
CABOT, JOHN, JR.,  
CAESAR, CHARLES U.,  
CAESAR, HENRY A.,  
CAHEN, JAMES P.,  
CALKINS, MISS EMMA W.,  
CALMAN, HENRY L.,  
CAMDEN, MRS. SPRIGG D.,  
CAMMANN, EDWARD C.,  
CAMMANN, MRS. GEORGE P.,  
CAMMANN, HENRY LORILLARD,  
CAMPBELL, DONALD,  
CANFIELD, GEORGE FOLGER,  
CANNON, MISS MARY ANTOINETTE,  
CAPLIN, HARRY,  
CARLEBACH, MRS. EMIL,  
CARLEBACH, WALTER M.,  
CARLISLE, JAY,  
CARLTON, NEWCOMB,  
CARNS, ARTHUR L.,  
CARPENTER, C. L.,  
CARROLL, PHILIP A.,  
CARSCALLEN, MRS. JOHN D., 2ND.,  
CARSON, MRS. J. HENRY,  
CARTER, ERNEST T.,  
CARTIER, P. C.,  
CASAMAJOR, DR. LOUIS,  
CASE, HENRY PHELPS,  
CASE, J. HERBERT,  
CASS, CHARLES ANDERSON,  
CASTKA, FRANK E.,  
CATTS, ROBERT M.,  
CATTY, F. GORDON,  
CAUTY, FRANK H.,  
CHADBOURNE, WILLIAM M.,  
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CHALLINOR, DAVID,  
CHALMERS, ARTHUR A.,  
CHAMBERLAIN, GEORGE AGNEW,

- CHAMBERLIN, WILLIAM B.,  
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CHAPMAN, CLARENCE C.,  
CHAPMAN, CLARENCE E.,  
CHAPMAN, HENRY OTIS,  
CHAPMAN, JOHN JAY,  
CHARLES, HOWARD W.,  
CHAUNCEY, A. WALLACE,  
CHAVES, JOSE EDWARD,  
CHENEY, GEORGE L.,  
CHENEY, MRS. KNIGHT DEXTER, JR.,  
CHENEY, LOUIS R.,  
CHENEY, MISS MARY,  
CHILD, JOHN H.,  
CHILD, MRS. LEWIS P.,  
CHILDS, EVERSLEY,  
CHILDS, STARLING W.,  
CHISOLM, B. OGDEN,  
CHOATE, MRS. ARTHUR O.,  
CHOATE, EDWARD A.,  
CHOATE, JOSEPH K.,  
CHUBB, PERCY,  
CHURCH, AUSTIN,  
CHURCH, CHARLES T.,  
CHURCH, E. D.,  
CHURCH, GEORGE H.,  
CHURCH, LOUIS P.,  
CLAFLIN, JOHN,  
CLARK, B. PRESTON,  
CLARK, C. M.,  
CLARK, CHARLES MARTIN,  
CLARK, EDWARD H.,  
CLARK, MRS. EDWARD HARDY,  
CLARK, MISS E. MABEL,  
CLARK, MRS. EDGAR MILTON,  
CLARK, HAROLD BENJAMIN,  
CLARK, HERBERT L.,  
CLARK, J. FRANCIS ALOYSIUS,  
CLARK, MRS. J. F. A.,  
CLARK, JAMES L.,  
CLARK, MRS. JOHN C.,  
CLARK, J. WILLIAM,  
CLARK, JOHN W.,  
CLARK, MARSHALL,  
CLARKE, E. A. S.,  
CLARKE, THOMAS B.,  
CLARKSON, MISS ANNIE,  
CLAUSEN, GEORGE,  
CLEMENS, DR. JAMES B.,  
CLIFFORD, MILTON H.,  
CLOSE, WALTER H.,  
CLOWES, F. J.,  
CLOWES, FREDERICK V.,  
COAKLEY, C. G., M.D.,  
COBB, A. POLHEMUS,  
COCHRAN, G. D.,  
COCKCROFT, MISS MARY T.,  
CODDINGTON, JOHN INSLEY,  
COFFIN, EDMUND,  
COFFIN, FRANCIS A.,  
COFFIN, REV. HENRY SLOANE, D.D.,  
COFFIN, WILLIAM SLOANE,  
COHEN, MISS CATHERINE,  
COHEN, EMANUEL,  
COHN, SYLVAN,  
COLBURN, ALBERT E.,  
COLE, EDWARD F.,  
COLE, MRS. RUFUS,  
COLEBROOK, CHARLES B.,  
COLEMAN, MRS. LEIGHTON H.,  
COLGATE, GILBERT,  
COLGATE, HENRY A.,  
COLKET, J. HAMILTON,  
COLLIER, MRS. R. J.,  
COLLINS, ALFRED M.,  
COLT, HARRIS D.,  
COLT, RICHARD C.,  
COLT, S. SLOAN,  
COLTON, MRS. CHESTER LEE,  
COMSTOCK, MRS. H. G.,  
CONBOY, MARTIN,

CONE, FREDERICK H.,  
CONHEIM, HERMANN,  
CONNELT, CHARLES M.,  
CONOVER, H. B.,  
CONSTANTIAN, DR. RAPHAEL,  
CONTENT, HARRY,  
CONVERSE, MISS MARY E.,  
CONYNGHAM, JOHN N.,  
COOGAN, JAY, 2ND.,  
COOGAN, MISS RHODA GORDON,  
COOK, MRS. ALFRED A.,  
COOK, MRS. CHARLES T.,  
COOL, ERNEST W.,  
COOPER, HENRY S. FENIMORE,  
COPE, FRANCIS R., JR.,  
CORBIN, AUSTIN,  
CORIELL, WILLIAM WALLACE,  
CORLIES, HOWARD,  
CORNELL, MISS EMILY LEFFERTS,  
CORNETT, MRS. GARDNER,  
CORWIN, ARTHUR F.,  
COSTER, CHARLES HENRY,  
COYKENDALL, FREDERICK,  
CRABBE, MISS LOUISE G.,  
CRAIG, BURDETTE P.,  
CRAIG, MISS ISABELLE KAHLO,  
CRAIG, MRS. ISABELLE M.,  
CRAIG, ROSS M.,  
CRANE, MRS. W. MURRAY,  
CRAWFORD, MARY M., M.D.,  
CRAWFORD, WILLIAM,  
CREWS, MISS MARY A.,  
CRIMMINS, MISS MARY,  
CRIMMINS, THOMAS,  
CROCKER, GEORGE A.,  
CROCKER, WILLIAM T.,  
CROMWELL, JAMES W.,  
CROMWELL, LINCOLN,  
CROSBY, MAUNSELL S.,  
CROSS, GEORGE D.,  
CROSS, J. W.,  
CROSS, MISS MARY R.,  
CROSSLEY, G. REGINALD,  
CUDDIHY, ARTHUR B.,

CULLEY, JAMES M.,  
CULLMAN, HOWARD S.,  
CULLMAN, JOSEPH,  
CUNNINGHAM, FRANCIS DE L.,  
CUNNINGHAM, W. DE LANCEY,  
CURIE, CHARLES,  
CURIEL, H.,  
CURRIER, MRS. EDWIN BRADLEY,  
CURTIS, CHARLES P.,  
CURTIS, MRS. JEANNETTE C.,  
CUSHMAN, B. A.,  
CUSHMAN, PAUL,  
CUTLER, JOHN W.,  
CUTTING, MRS. CONSTANCE R.,  
CUTTING, FULTON,  
CUTTING, R. FULTON,  
CUTTING, MRS. W. BAYARD,  
CUYLER, MISS ELEANOR DE G.,  
DAILEY, GRANVILLE F.,  
DALLETT, FREDERIC A.,  
DALY, D. LOUGHRAN,  
DAME, F. L.,  
DAMROSCH, FRANK,  
DANA, PAUL,  
DANE, MRS. ERNEST B.,  
DARLING, ALBERT KELSEY,  
DARLING, JOSEPH WARREN,  
DAVENPORT, MRS. IRA,  
DAVENPORT, WILLIAM B.,  
DAVIDGE, WILLIAM H.,  
DAVIES, J. CLARENCE,  
DAVIS, MRS. CECIL CLARK,  
DAVIS, GHERARDI,  
DAVIS, HOWLAND,  
DAVIS, MORGAN,  
DAVIS, MRS. ROBERT C.,  
DAVIS, WALTER S.,  
DAVISON, MISS ALICE M.,  
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DAVISON, F. TRUBEE,  
DAVISON, MRS. HENRY POMEROY,  
DAY, MISS LAURA V.,  
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DEGENER, JOHN F., JR.,  
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DELAFIELD, LEWIS L.,  
DELANO, LYMAN,  
DELANO, MOREAU,  
DE LANOY, WILLIAM C.,  
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DENBY, EDWIN H.,  
DEPEREGNY, COMTESSE,  
DERBY, JAMES LLOYD,  
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DESOLA, RALPH C.,  
DETMER, JULIAN F.,  
DEWEY, FREDERICK A.,  
DEWEY, MARTIN,  
DEXTER, GEORGE M.,  
DEYO, MISS MARGARET,  
DEYOE, H. L.,  
DEZALDO, FREDERICK,  
DICKERSON, E. N.,  
DICKY, MRS. CHARLES D.,  
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DIENST, A. P.,  
DIKE, OSCAR D.,  
DILLON, HERBERT LOWELL,  
DILWORTH, JOSEPH R.,  
DINSMORE, WILLIAM B.,  
DIX, MRS. ALFRED P.,  
DIXON, F. E.,  
DIXON, THEODORE P.,  
DOANE, BENJAMIN H.,  
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DODD, ALFRED W.,  
DODGE, BAYARD,  
DODGE, CLEVELAND E.,  
DOHME, JOHN L.,  
DOMINICK, GAYER G.,  
DOMINICK, H. BLANCHARD,  
DOMMERICH, OTTO L.,  
DONALD, MISS ANNA E.,  
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DOREMUS, F. S.,  
DOUBLEDAY, F. N.,  
DOUGHERTY, RT. REV. MGR. GEORGE  
A., D.D.,  
DOUGLAS, MISS ELIZABETH,  
DOUGLAS, WALTER,  
DOUGLAS, WILLIAM H.,  
DOWD, MRS. JOSEPH,  
DOWD, WYLLS E., JR.,  
DOWNER, J. HALSEY,  
DOWNEY, JOHN I.,  
DOWS, MRS. DAVID, SR.,  
DOWS, TRACY,  
DRAGER, F. W.,  
DRAKE, MISS MARY E.,  
DRAPER, CHARLES D.,  
DRAPER, DR. GEORGE,  
DRAPER, JOHN M.,  
DRAYTON, MRS. HENRY COLEMAN,  
DRAYTON, J. COLEMAN,  
DRAYTON, W. HEYWARD, 3RD,  
DRUMMOND, I. WYMAN,  
DUANE, MRS. JAMES MAY,  
DUBOIS, ARTHUR,  
DUBOIS, EUGENE,  
DUBOIS, MISS MARGARET,  
DUBOIS, MRS. MATTHEW B.,  
DUEL, DR. ARTHUR B.,  
DUFFY, JOHN J.,  
DUIS, B. A.,  
DUNCAN, STUART,  
DUNCAN, MRS. STUART,  
DUNHAM, LEWIS L.,  
DUNLOP, E. A.,  
DUNNE, MRS. FINLEY PETER,  
DU PONT, H. F.,  
DURANT, DONALD,  
DURFEE, CHARLES H.,



DURKEE, MRS. A. W.,  
DURKEE, RICHARD P. H.,  
DURKEE, MRS. RICHARD P. H.,  
DWIGHT, MISS ADELIA A.,  
DWIGHT, JONATHAN, M. D.,  
DWIGHT, MRS. WINTHROP E.,  
EATON, MRS. FREDERICK H.,  
EATON, GEORGE L.,  
EERSTADT, FERDINAND,  
ECK, WILLIAM J.,  
ECKART, EDMUND,  
EDDY, L. A., JR.,  
EDEN, JOHN H.,  
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EDWARDS, GEORGE HARTWELL,  
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EIDLITZ, ROBERT JAMES,  
EILERS, KARL,  
EINHORN, DR. MAX,  
EINSTEIN, I. D.,  
EISING, HARRY,  
ELDRIDGE, WILLIAM T.,  
ELIAS, HENRY H.,  
ELLIOT, MISS MARGARET H.,  
ELLIOTT, HOWARD,  
ELLIS, RALPH, JR.,  
ELLNER, LEWIS A.,  
ELLSWORTH, D. S.,  
ELLSWORTH, JOHN S.,  
ELMENDORF, DR. TEN EYCK,  
ELSEBERG, DR. CHARLES A.,  
EMANUEL, J. H., JR.,  
EMBURY, MISS EMMA C.,  
EMMET, MISS LYDIA F.,  
EMMET, ROGER TEMPLE,  
ERDMANN, MARTIN,  
ERDMANN, WILLIAM,  
ERLANGER, MILTON S.,

ERVING, MISS KATHARINE V. R.,  
ESBERG, HENRY,  
ETTLINGER, LOUIS,  
EUSTIS, JOHN E.,  
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EVANS, S. M.,  
EVANS, VICTOR J.,  
EWEN, WILLIAM CARNEGIE,  
EWING, GEORGE R. M.,  
EWING, MRS. THOMAS,  
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BARBOUR, THOMAS,	MAC CALLUM, DR. GEORGE A.,
BEEBE, WILLIAM,	MATTHEW, DR. W. D.,
*BICKMORE, PROF. ALBERT S.,	*MAYOR, DR. ALFRED G.,
BLAIR, DR. W. REID,	MERKEL, HERMANN W.,
BREDER, C. M., JR.,	MORGAN, PROF. THOMAS H.,
BRISTOL, PROF. CHARLES L.,	NICHOLS, DR. J. T.,
BROOKS, DR. HARLOW,	NOBACK, DR. CHARLES V.,
CALKINS, PROF. GARY N.,	NOBLE, DR. GEORGE K.,
CRAMPTON, PROF. HENRY E.,	OSBORN, PROF. HENRY FAIRFIELD,
CRANDALL, LEE S.,	OSBURN, DR. RAYMOND C.,
DAVENPORT, DR. CHARLES B.,	PONDER, DR. ERIC,
*DEAN, DR. BASHFORD,	PORTIELJE, A. F. J.,
DITMARS, R. L.,	RAVEN, H. C.,
*DUTCHEE, WILLIAM,	SCHULTE, PROF. H. VON W.,
GRANT, MADISON,	SCOTT, DR. GEORGE G.,
GREGORY, DR. WILLIAM K.,	SETH-SMITH, DAVID,
GRINNELL, GEORGE BIRD,	SETON, ERNEST THOMPSON,
GUDGER, PROF. E. W.,	*SHELDON, CHARLES,
HARTLEY, G. INNESS,	STOCKARD, DR. CHARLES R.,
HOLLISTER, MISS GLORIA ELAINE,	STUNKARD, PROF. HORACE W.,
HORNADAY, DR. WILLIAM T.,	THAYER, GERALD B.,
*HUNTINGTON, DR. GEORGE S.,	TILNEY, DR. FRED C.,
LANG, HERBERT,	TOWNSEND, DR. CHARLES H.,
LEE, PROF. FREDERIC C.,	WILSON, PROF. EDMUND B.,
*LUCAS, DR. FREDERIC A.,	YERKES, DR. ROBERT M.,

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† The qualifications for this class rest solely upon scientific achievement.

*Corresponding Members*

JAMES H. BRIGHT,	MISS GLORIA ELAINE HOLLISTER,
MAJOR FREDERICK R. BURNHAM,	*SIR HARRY H. JOHNSTON,
BARTON W. EVERMANN,	*W. H. DUDLEY LE SOUEF,
B. A. FERNANDES,	RUSSELL HASTINGS MILLWARD,
VICTOR FORBIN,	LT. COL. HUGH ROSS, D.S.O.
T. P. GILFEDDER,	MAJOR C. G. STURTEVANT,
T. H. GILLESPIE,	DR. H. M. WEGEFORTH,
DR. A. K. HAAGNER,	DR. W. REGINALD WHEELER,
	G. TYRWHITT-DRAKE,

\* DECEASED



CHARTER  
OF THE  
**New York Zoological Society**

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CHAPTER 435, LAWS OF 1895.

AN ACT to incorporate the New York Zoological Society and to provide for the establishment of a zoological garden in the city of New York.

As amended by Chapter 146 of the Laws of 1902; by Chapter 240 of the Laws of 1910; and by Chapter 19 of the Laws of 1930.

See Chapter 432 of the Laws of 1900.

See Chapter of the city of New York, Section 626 of the Laws of 1901.

*The People of the State of New York, represented in Senate and Assembly, do enact as follows:*

SECTION 1. Charles A. Dana, Oswald Ottendorfer, Andrew H. Green, William H. Webb, Henry H. Cook, Samuel D. Babcock, Charles R. Miller, George G. Haven, J. Hampden Robb, Frederick W. DeVoe, J. Seaver Page, Rush C. Hawkins, David James King, Wager Swayne, Charles A. Peabody, Jr., Charles E. Whitehead, Charles R. Flint, Samuel Parsons, Jr., Mornay Williams, Henry E. Gregory, Isaac W. Maclay, Isaac Rosenwald, Hugh N. Camp, Andrew D. Parker, Cornelius Van Cott, William F. Havemeyer, Frederick Shonnard, William W. Thompson, Alexander Hadden, Edward L. Owen, John H. Starin, Rush S. Huidekoper, William W. Goodrich, Albert H. Gallatin, Frederick S. Church, Edward C. Spitzka, Robert L. Niles, Madison Grant, C. Grant La Farge, William Van Valkenburg, and such other persons as may, under the provisions of its by-laws become members of the corporation hereby created, are hereby created by a body corporate and public, by and under the name of New York Zoological Society.

SEC. 2. Said corporation shall have power to establish, maintain and control zoological parks, gardens, or other collections for the promotion of zoology and kindred subjects, and for the instruction and recreation of the people. Said corporation may collect, hold, and expend funds for zoological research and publication, for the protection of wild animal life, and for kindred purposes, and may promote, form, and co-operate with other associations with similar purposes, and may purchase, sell, or exchange animals, plants, and specimens appropriate to the objects for which it was created.

SEC. 3. The trustees of said corporation shall have power to make and adopt by-laws for the management and government of its affairs and business, for the admission, suspension, and expulsion of its members, and for the terms and conditions of membership; to prescribe the number and mode of election of its officers; to define their duties; to provide for the safe-keeping of its property, and from time to time to alter and modify its By-laws.

SEC. 4. The affairs and business of said corporation shall be managed and controlled by a board of trustees, the number of whom shall be prescribed by the by-laws. The first board of trustees shall be divided by lot into three classes, equal in number, one of which classes shall hold office for one year, another for two years, and the other for three years; and all persons elected to be trustees at any subsequent election shall hold office for three years, and until



others are elected in their stead. There shall be a president, two vice-presidents, treasurer and secretary, to be elected by the board of trustees annually, who shall hold office until others are elected in their stead. The first meeting under this act may be held at any time upon a notice of five days, signed by any five of the incorporators named in the first section of this act, fixing a time and place for such meeting, a copy whereof shall be mailed to each of said incorporators at his usual post-office address, and twelve of such incorporators shall be a quorum for the purpose of organization, adoption of by-laws, and election of officers. No trustee of said corporation shall be interested, directly or indirectly, in any contract concerning its property or affairs.

SEC. 5. Said corporation may raise money by the issue of bonds, secured by a mortgage on any or all of its property not acquired from said city or state.

SEC. 6. Said corporation may take, purchase, and hold real and personal estate necessary for the purpose of its incorporation, and shall possess the general powers and be subject to the restrictions and liabilities prescribed in Article II of Chapter 23 of the Consolidated Laws, entitled "General Corporation Law," being chapter 28 of the Laws of 1909.

SEC. 7. The commissioners of the sinking fund of the said city are authorized in their discretion to allot, set apart, and appropriate for the use of said corporation, any of the lands belonging to said city north of One Hundred and Fifty-fifth Street, but not in the Central Park, and such appropriation may be revoked if, after the expiration of five years from the passage of the act, a zoological garden is not established thereon; said grounds thus set apart and appropriated shall be used for no purpose whatsoever except those aforesaid. As soon as any lands are set apart the Mayor of the said city of New York and the President of the Department of Parks of said city, shall become and be *ex-officio* members of the board of trustees of said corporation. If at any time the animals now composing the menagerie of Central Park shall be removed therefrom by the authorities having charge thereof, said authorities may make an arrangement with the incorporators named in this act or the corporation formed by them for leasing or sale of such animals to such incorporators or corporation, and said incorporators or corporation shall have a preference over any other person or corporation in respect thereto upon the same terms which said authorities could make with any such other person or corporation, or upon such other terms as to such authorities may seem proper, but nothing herein provided shall be construed as giving the commissioners of the Department of Public Parks authority to sell, lease, transfer, or in any other wise dispose of said animals or other property connected with or belonging to said menagerie.

SEC. 8. Admission to the said gardens shall be free to the public for at least four days, one of which shall be Sunday, in each week, subject to such rules and regulations as shall be prescribed by said corporation.

SEC. 9. This act shall take effect immediately.

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AN ACT to amend chapter four hundred and thirty-five of the laws of eighteen hundred and ninety-five, entitled "An act to incorporate the New York Zoological Society and to provide for the establishment of a zoological garden in the City of New York" in relation to real and other property.

Became a law May 26, 1917, with the approval of the Governor. Passed, three-fifths being present.

## ACCEPTED BY THE CITY.

*The People of the State of New York, represented in Senate and Assembly, do enact as follows:*

SECTION 1. Chapter four hundred and thirty-five of the laws of eighteen hundred and ninety-five, entitled "An act to incorporate the New York Zoological Society and to provide for the establishment of a zoological garden in the City of New York," as amended by chapter two hundred and fifty of the laws of nineteen hundred and ten, is hereby further amended by adding thereto a new section to read as follows:

7-a. The board of estimate and apportionment in the City of New York may, in its discretion, set apart and appropriate upon such conditions as it may deem expedient for the extension and development of the work and objects of the said New York Zoological Society, the whole or any part of that portion of Bronx Park in the City of New York, lying to the south of Pelham avenue and Pelham parkway, for the use of the said New York Zoological Society, the said lands so to be appropriated to be described particularly in the order of the board of estimate and apportionment hereby authorized. The said board of estimate and apportionment may also, in its discretion at the time of setting apart and appropriating said lands or any part thereof to the New York Zoological Society, and annually thereafter, in addition to any sum or sums which it may have appropriated for the support and maintenance of the New York Zoological Park, appropriate to the use of said society, such sum or sums in its discretion for the care and maintenance of the additional lands that may be allotted to the said society under the authority hereby conferred, as it may deem best.

2. This act shall take effect immediately.

## **New York Zoological Society**

AND THE

## **New York Aquarium**

### CHAPTER 441, LAWS OF 1902.

AN ACT to authorize a further appropriation to the New York Zoological Society for the support of the New York Aquarium.  
As amended by Chapter 239 of the Laws of 1910.

*The People of the State of New York, represented in Senate and Assembly, do enact as follows:*

Chapter four hundred and forty-one of the laws of nineteen hundred and two, entitled "An Act to authorize a further appropriation to the New York Zoological Society for the support of the New York Aquarium," is hereby amended to read as follows:

SECTION 1. The Board of Estimate and Apportionment of the City of New York may annually, in its discretion include in the budget for the then next ensuing financial year, in addition to any sum or sums which may be appropriated for the adequate support and maintenance of the New York Zoological Park or gardens, situated in the borough of the Bronx, and administered and controlled by the New York Zoological Society, a further sum or sums, in its discretion for the use of the said New York Zoological Society, provided, however, that the additional appropriation hereby authorized shall be made only in case an agree-

ment is entered into between the said New York Zoological Society and the City of New York, acting by its Board of Estimate and Apportionment for the adequate keeping, maintenance, extension, preservation and exhibition of the building and approaches thereto and collection of aquatic animals and plants contained therein, known as the New York Aquarium, situated in the Battery Park in the Borough of Manhattan in said city, and also for furnishing opportunities for study, research and publication in connection with said collections, which contract the said Board of Estimate and Apportionment is hereby expressly authorized, in its discretion, to make upon such terms and conditions as may be agreed upon with the said New York Zoological Society, and which contract shall also provide how the duty of the commissioner of parks for the borough of Manhattan and Richmond in respect to maintaining the said aquarium now imposed upon him by law shall be performed.

Sec. 2. This act shall take effect immediately.

# GRANT OF SOUTH BRONX PARK

TO THE

## New York Zoological Society

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At a special meeting of the Commissioners of the Sinking Fund, City of New York, held on March 24, 1897, a resolution was passed allotting South Bronx Park for the use of the New York Zoological Society upon conditions entirely satisfactory to the Society.

The full text of the resolution is as follows:

WHEREAS, by chapter 435 of the Laws of 1895, entitled "An act to incorporate the New York Zoological Society and to provide for the establishment of a Zoological Garden in the City of New York," it is provided that the Commissioners of the Sinking Fund of the City of New York are authorized in their discretion to allot, set apart and appropriate, for the use of said corporation, any of the lands belonging to said city north of 155th Street, but not in Central Park,

RESOLVED, that the said Commissioners of the Sinking Fund do hereby allot, set apart and appropriate for the use of said corporation, a tract of land in the southern portion of Bronx Park, embracing an area of about 261 acres, and consisting of so much of said park as lies south of Pelham Avenue, upon the following terms and conditions, to wit:

*First.* That said grounds thus set apart and appropriated, shall be used for no other purpose whatsoever except for the sole purposes of said Zoological Garden as the same are specified in the act aforesaid, and that said appropriation of said lands hereby made shall be revoked if, after the expiration of three years from the date of the commencement of the work by the Park Department for the necessary improvement of the grounds as referred to and described in the sixth paragraph of this Resolution, a Zoological Garden is not established upon said tract of land.

*Second.* That the original equipment of buildings and animals for said Zoological Garden shall be paid for from funds contributed by the New York Zoological Society, and that said Society shall, before it enters into occupation of the allotted land and within one year from the date of this Resolution, raise one hundred thousand dollars by subscription, and within three years from the date of the commencement of the work by the Park Department for the necessary improvement of the grounds as referred to and described in the sixth paragraph of this Resolution, the further sum of at least one hundred and fifty thousand dollars. If the said Society shall fail or neglect to raise said funds within the periods respectively fixed therefor, it shall, on demand of the Commissioners of the Sinking Fund, surrender to the City of New York the land allotted to it as a site for said Garden, and all improvements made thereon. The said Society shall not mortgage its buildings or animals, or any of its property within said Garden, which is directly or indirectly maintained by the City of New York.



*Third.* The said Zoological Society shall have the power to establish an endowment fund from the donations and bequests, which fund shall be used solely, unless otherwise specified by the donors thereof, for the general uses and purposes of said Society. The funds of said Society, other than the sums contributed to said endowment fund, shall be expended upon buildings and other enclosures for animals, for the collections of animals, and for the general purposes of the Society. Among the funds thus to be expended shall be the subscriptions of members, life members and patrons, and all cash donations to said Society, other than those made for the purposes of the endowment fund, and all moneys derived from the sale of animals; and the net proceeds of the privileges that may be developed in said Garden, such as refreshments, boating, riding animals, the sale of photographs, etc., shall be used for, and expended in the increase of the collections; and payments from the funds of such Society, including the endowment fund, shall be made directly from the treasury of the Society.

*Fourth.* The library, pictures, maps, office furniture, and other movable property purchased and owned by the Society shall remain the property of the Society, and excepting living animals, may be removed by said Society without the written consent of the Board of Parks. All property paid for from the maintenance fund, hereinafter referred to, shall belong to the City.

*Fifth.* So long as the said Society is entrusted with the control and management of the said Zoological Garden, and the city provides for the proper maintenance and care of the animals and collections therein, the said Society shall not remove any of its animals or collections for exhibition elsewhere without the consent of the Board of Parks, but if the City shall ever cease to provide for the proper maintenance and care of the said animals and collections, the said Zoological Society shall have the right, upon giving three months' notice in writing to the Board of Parks, to remove the said animals and collections owned by it. The said Society shall have the right to improve its collections by the exchange of animals, and also by the sale of animals not needed for exhibition; but all moneys derived from such sale or exchange of animals shall be used only for the purpose of increasing said collections.

*Sixth.* The City of New York shall annually provide the necessary funds for the maintenance and care of the Zoological Garden, its buildings, inclosures and other improvements made from time to time therein, and the animals and collections of said Society; but the appropriation for the first year is not to exceed Sixty thousand dollars (\$60,000). It shall be the duty of the City to provide from such sums or appropriations, as may be applicable thereto, the cost of the necessary improvement of the ground prior to the erection of buildings and inclosures, including such roads, walks, fences, grading, water supply, drainage and heating as may be or become necessary for the proper development of said Zoological Garden, all of which work of preparation and construction shall be performed in conformity with the plans therefor to be agreed upon between the Park Department and the Zoological Society. The said City shall also furnish the necessary supply of water, and adequate police patrol and protection, and the salaries of all persons employed directly in the service and development of the Zoological Garden shall be paid from the maintenance fund, and from such other funds as may be available for and applicable to the purpose. Payments from the maintenance fund shall be made upon vouchers filed with the Comptroller and drawn in such form as he may direct; and said Society shall annually render the year then past, made on account of the said Zoological Garden, all revenues and resources thereof, a statement of the number of the members of said Society, of the donations received and of the number of animals in the Garden, the chief items of im-



provement made during the year, and all other information that the said Mayor may require.

*Seventh.* The Park Department shall at all times have access to the grounds, buildings and other inclosures of the said Zoological Society for general police visitation and supervision, and for all other lawful purposes. Prior to the commencement of any work on said Garden the general plan therefor shall be submitted to and approved by the Park Board, and all subsequent plans for buildings, roadways and paths shall also be so submitted and approved. No living tree shall be cut down or removed, except by the express authority of said Park Department, but the said Zoological Society shall have the right to remove dead trees and such bushes as it may be necessary to remove in the preparation of inclosures for animals, or in making other improvements. The said Department of Parks shall plant such and so many shade trees, aquatic plants, shrubs and flowers as may be necessary to enhance and secure the seclusion, beauty and usefulness of the park, and shall do and perform all the work of gardening necessary to carry out the general plan of improvement and the subsequent plans as may be agreed upon between the said Zoological Society and the said Department of Parks.

*Eighth.* The said Zoological Garden and its collection shall be free to the public without the payment of any admission fee or gratuity whatsoever for not less than seven hours a day on at least five days of the week, one of which shall be Sunday, and also on all legal holidays and half holidays, subject to such reasonable regulations as may be made by said Society, but the said Society may close the area devoted to the collections of animals on not more than two days in each week, and on such days may charge an admission fee which shall be fixed by said Society, and all moneys derived from such admission fees shall be expended by said Society in the increase of the collections or in the improvement of said Garden or its buildings; but the portion of the grounds situated east of Boston Road, and all the Bronx River below the Boston Road bridge shall be open to the public at all times as pleasure grounds, subject to such reasonable regulations as may be adopted by said Society with the approval of the Park Department, and the occupancy of that portion of the park by herds of animals or by collections, shall be subject to the consent of the Park Department.

*Ninth.* The said Zoological Society shall have the right and power to appoint, direct, control and remove all persons and officers employed by them in and about the Zoological Gardens, and to fix the salaries of such persons and officers and to make promotions, but all regular employees shall be chosen, and their salaries fixed and promotions made, by reason of special fitness and ability.

*Tenth.* Subject to the conditions hereinbefore contained, the said Zoological Society shall exercise entire control and management over all the affairs of the said Zoological Garden.

BY-LAWS  
OF THE  
**New York Zoological Society**

AS AMENDED MAY 21, 1925,  
AND ON DECEMBER 27, 1929.

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ARTICLE I.

MEETINGS OF THE SOCIETY

SECTION 1. The office and place of business of the New York Zoological Society shall be in the City of New York, unless otherwise ordered.

SEC. 2. The Society shall hold its annual meeting for the election of Managers, and other business, on the second Tuesday of January, or such day thereafter during the month of January to which said annual meeting shall adjourn.

SEC. 3. Special meetings of the Society shall be called by the Secretary, upon the request of the President or the Chairman of the Executive Committee, or at the written request of ten members.

SEC. 4. Notices of all meetings shall be mailed to each member of the Society at least three days before such meeting.

SEC. 5. At meetings of the Society twenty members shall constitute a quorum.

SEC. 6. The order of business shall be as follows:

1. Roll Call.
2. Reading of minutes not previously read.
3. Report of Executive Committee.
4. Report of Secretary.
5. Report of Treasurer.
6. Report of the Director of the Zoological Park.
7. Report of Director of the Aquarium.
8. Election of Managers.
9. Communications.
10. Miscellaneous business.
11. Reports and resolutions.

ARTICLE II.

BOARD OF MANAGERS

SEC. 1. The Board of Managers shall consist of thirty-six members, together with the Mayor of New York and President of the Park Board, or Commissioner for the Bronx, who shall be members *ex-officio* of the Board.

SEC. 2. Twelve Managers shall constitute a quorum; but seven Managers may transact current business, and adjourn, subject to the subsequent approval of a meeting at which a quorum shall be present.

SEC. 3. The Board of Managers shall hold an annual meeting on the twenty-sixth day of December in each year, unless said date shall fall upon a Sunday, in which event the annual meeting shall be held on the following day. Regular meetings of the Board may also be called by the Secretary on the third Tuesdays of October and April upon the request of the President or Chairman of the Executive Committee. Special meetings of the Board shall be called at any time by the Secretary upon the request of the President or Chairman of the Executive Committee, or at the written request of five managers.

SEC. 4. Notices of meetings of the board shall be mailed to each Manager at least three days before such meetings.

SEC. 5. The successors to the outgoing class of Managers shall be elected by the Society at its annual meeting, but vacancies in the board may be filled for the unexpired term by the Board of Managers, or by the Executive Committee.

SEC. 6. A Nominating Committee shall be annually appointed by the Executive Committee, and shall consist of three members of the Society at large, who shall nominate and post ten days before the annual election the names of twelve persons to succeed the outgoing class of Managers in a conspicuous place in the office of the Society.

SEC. 7. No person shall be eligible for the election of the Board of Managers except to fill vacancies, unless his name shall have been posted as a candidate by such committee, or by not less than ten members, in writing, in a conspicuous place in the office of the Society ten days before the annual election. All candidates for election as Managers must be Life Members, Patrons, Associate Founders, or Founders of the Society.

SEC. 8. Any Manager who shall fail to attend three consecutive meetings of the Board, unless excused by a vote of the Board, shall cease to be a Manager.

SEC. 9. The Board of Managers shall at its annual meeting elect a President, two Vice-Presidents, a Secretary, and Treasurer, who shall hold office for one year, or until their successors are elected. The President, Vice-Presidents, and Treasurer shall be members of the Board.

SEC. 10. The Director of the Zoological Park, the Director of the Aquarium, and all other persons employed by the Society, shall be appointed by the Board or by the Executive Committee, and shall hold office during the pleasure of the Board.

SEC. 11. The Board shall, at its annual meeting, elect an Executive Committee and Auditing Committee, which shall hold office for one year, or until their successors are elected. The Board of Managers and the Executive Committee shall also have authority to appoint such other Committees or officers as they may at any time deem advisable and to delegate to them such powers as may be necessary.

SEC. 12. The order of business of the meetings of the Board shall be as follows:

1. Roll Call.
2. Reading of minutes not previously read.
3. Report of Executive Committee.
4. Report of Secretary.
5. Report of Treasurer.
6. Report of Auditing Committee.
7. Report of Director of Zoological Park.
8. Report of the Director of the Aquarium.
9. Election of Officers

10. Election of Committees.
11. Election of new members.
12. Communications.
13. Miscellaneous business.

SEC. 13. All reports and resolutions shall be in writing, and the ayes and nays may be called on any resolution at the request of one Manager.

SEC. 14. Whenever the funds of the Society shall permit, the Board of Managers or the Executive Committee may award medals or other prizes for meritorious work connected with the objects of the Society.

### ARTICLE III.

#### OFFICERS

SEC. 1. The officers of the Society shall consist of a President, two Vice-Presidents, a Treasurer, a Secretary, and a Director of the Zoological Park. These officers, with the exception of the Director, shall be elected at the annual meeting of the Board of Managers, but any vacancy may be filled for an unexpired term by the Board of Managers, or by the Executive Committee, until the next annual election.

SEC. 2. The President shall preside at all meetings of the Board and of the Society, and shall be *ex-officio* a member of the Executive and Auditing Committees.

SEC. 3. The Vice-Presidents shall, in the absence of the President, perform his duties and possess his powers, acting in the order of their election.

SEC. 4. The Treasurer shall receive, collect and hold, subject to the order of the Board of Managers, or the Executive Committee, all dues, subscriptions, warrants from the City, fees and securities. He shall pay all bills as ordered by the Board of Managers or the Executive Committee, and shall report to the Society at its annual meeting, and to the Board of Managers at all regular meetings, and to the Executive Committee at each meeting. He shall keep all moneys and securities in some bank or trust company to be approved by the Board of Managers or Executive Committee. The books of the Society shall at all times be open to the inspection of the Managers.

SEC. 5. The Secretary, unless relieved by the Board or Executive Committee, shall attend all meetings of the Society, of the Board and of the Standing Committees. He shall keep a careful record of all proceedings, shall have the custody of the seal, archives and books, other than books of account, and shall conduct the correspondence of the Society. He shall issue all notices and tickets, and shall perform such other duties as the Board may direct. He shall be a member *ex-officio* of the Executive, Aquarium, and Auditing Committees, and of the Scientific Council.

SEC. 6. The Director of the Zoological Park shall be elected annually by the Executive Committee at a salary to be determined by said Committee, and shall hold office until removed or his successor chosen by said Committee. He shall be the responsible administrative officer of the Park, and shall recommend to the Executive Committee candidates for the various positions in the Park. He shall also perform all such other duties in connection with the business, scientific, and literary administration of the Society as may be assigned to him by the Executive Committee.

SEC. 7. The Director of the Aquarium shall be elected annually by the Executive Committee, and shall hold office until removed or his successor is chosen by said Committee. He shall be the responsible administrative officer



of the Aquarium, and shall recommend to the Executive Committee all candidates for positions in the Aquarium. The director of the Aquarium shall be *ex-officio* a member and Chairman of the Aquarium Committee. He shall perform such other duties in connection with the Aquarium as may be assigned to him by the Executive Committee.

#### ARTICLE IV.

##### SECTIONS 1 AND 12 AMENDED DECEMBER 27, 1929

##### COMMITTEES

SEC. 1. There shall be three standing committees, the Executive Committee, the Finance Committee and the Auditing Committee, which shall hold office for one year or until their successors are elected.

SEC. 2. The Executive Committee shall consist of eight Managers, together with the President, Secretary and Treasurer of the Society *ex-officio*. Four members including the Chairman shall constitute a quorum, and all meetings shall be called by the Chairman. The Executive Committee shall fill all vacancies in its own number and shall have the full power of the Board of Managers, except so far as such delegation of power may be contrary to law.

SEC. 3. The Executive Committee shall have the control and regulation of the collections, library and all other property of the Society, and shall have the power to purchase, sell and exchange specimens and books.

The Executive Committee shall also have power to employ and control all officials and employees of the Society, Park and Aquarium, to authorize the payment of a salary to the Chairman of the Executive Committee, the Secretary and other officials in its discretion, to fix the amount of all salaries, and generally to carry out in detail the directions of the Board of Managers and the terms of any contract between the City, or Park Board, and the Society.

SEC. 4. All the rules and regulations for the examination of applicants for the various positions in the Park and Aquarium shall be made or approved by the Executive Committee.

SEC. 5. The Executive Committee may regulate the auditing and payment for all current accounts.

SEC. 6. The Executive Committee shall annually appoint an Aquarium Committee, whose duties and powers are set forth in Section II of Article IV of these By-Laws.

SEC. 7. The Executive Committee shall annually appoint a Nominating Committee, whose duties and powers are set forth in Sections 6 and 7, Article II, of these By-Laws.

SEC. 8. It shall also appoint a Scientific Council, whose powers and duties are set forth in Section 2 of Article V of these By-Laws.

SEC. 9. The Committee shall make a written report at each regular meeting of the Board of Managers.

SEC. 10. The Auditing Committee shall consist of three regular members of the Society, in addition to the President and Secretary, members *ex-officio*, and vacancies shall be filled by the Executive Committee. It shall be the duty of the Auditing Committee to audit, annually, the accounts of the Treasurer, of the Director of the Zoological Park, and of the Director of the Aquarium, and any other accounts of the Society, and shall report to the Board of Managers at its annual meeting.



SEC. 11. The Executive Committee shall annually appoint an Aquarium Committee, not to exceed eight members of the Society, who shall hold office until their successors are chosen. All vacancies shall be filled by the Executive Committee. The Director of the Aquarium shall be *ex-officio* a member and the Chairman of the Aquarium Committee, and such Committee may vest in him any or all of its powers. The Chairman of the Executive Committee and the Secretary of the Society shall also be *ex-officio* members of the Aquarium Committee. Three members shall constitute a quorum. The Executive Committee may delegate to the Aquarium Committee such powers as it may deem proper.

SEC. 12. The Finance Committee shall consist of three or more Managers with the Treasurer of the Society Ex-Officio who shall act as Chairman. The Finance Committee shall have authority in its discretion to sell bonds, stocks, and other securities belonging to the Society and to invest and reinvest (together with any other funds of the Society available for investment) in such securities as it may deem wise and shall advise the Board of Managers as to changes that it deems advisable in securities already owned by the Society. Notwithstanding the power hereby conferred the Executive Committee may at any time direct the sale of any securities held by the Society or direct the Treasurer to invest available funds of the Society in such securities as it may select. The Finance Committee shall report from time to time to the Executive Committee all securities purchased or sold. The report of the Treasurer as to the investment of the funds of the Society shall be sufficient authority to the Chairman of the Executive Committee for approving drafts upon the bank account of the Society to pay for the same.

All bonds, stocks, and other securities shall be deposited for safe-keeping in a Trust Company approved by the Executive Committee to be held for the account of the Society and subject to the joint written order of the President and the Treasurer or of any other two officers authorized by the Executive Committee. All transfers and assignments of the securities registered or standing in the name of the Society shall be executed under its seal by the President or Vice-President together with the Secretary or Treasurer of the Society.

## ARTICLE V.

### SCIENTIFIC COUNCIL

SEC. 1. The Executive Committee shall annually appoint a Scientific Council of not more than ten members, and shall fill all vacancies. Members of the Council shall hold office until their successors are appointed.

SEC. 2. The duties of the Council shall be to act as an advisory board in all matters pertaining to the scientific administration of the Society, and especially as to the scientific features of the Park, the promotion of zoology by publications and otherwise, and the preservation of the native fauna of America.

SEC. 3. Four members, including the Chairman, shall constitute a quorum. The Chairman shall be elected annually by the Council. The Chairman of the Executive Committee and the Secretary of the Society shall be members *ex-officio* of the Council.

## ARTICLE VI.

### MEMBERS

SEC. 1. The present members and such others as shall become associated with them, under the conditions prescribed by the By-Laws, shall be members of this Society as long as they shall comply with the By-Laws.

SEC. 2. Members failing to comply with these By-Laws, or for other good and sufficient cause, may be expelled from the Society by the Executive Committee.

SEC. 3. Candidates for membership shall be proposed and seconded by members of the Society. The name, occupation, and place of residence of every member as proposed shall be submitted for election to the Board of Managers or the Executive Committee, and such person, when elected, shall become a member upon payment of the annual dues, or of the fees as prescribed below.

SEC. 4. There shall be a class known as Fellows, which shall consist of members of the Society who have rendered marked services to science, and shall be chosen by the Executive Committee. The privileges of Fellows shall be in all respects the same as those of regular members of the Society, but they shall be exempt from the payment of annual dues.

SEC. 5. The annual dues shall be ten dollars, payable in advance, on the first day of May of each year, but the Executive Committee may remit the dues for the current year in the case of members elected between January 1st and May 1st of each year. The classes of membership shall be as follows:

SEC. 6. The payment of \$200 at one time shall constitute any member a Life Member.

A member who has paid annual dues for a period of five years may thereafter, at any time, upon the payment of the difference between the amount of dues already paid and \$200, become a Life Member, but such payment shall be not less than \$100.

SEC. 7. The payment of \$1,000 at one time, or in the case of a Life Member, of \$800, shall constitute any member a Patron.

SEC. 8. The payment of \$2,500 at one time, or in the case of a Patron of \$1,500, or of a Life Member of \$2,300, shall constitute any member an Associate Founder.

SEC. 9. Any member who shall donate to the Society \$5,000, or property of equal value, or any Associate Founder who shall donate \$2,500, or any Patron who shall donate \$4,000, may be elected by the Board of Managers or Executive Committee a Founder.

SEC. 10. Any member who shall have donated to the Society ten thousand dollars (\$10,000), or its equivalent, may be elected by the Board of Managers or the Executive Committee a Founder in Perpetuity. Such Founder in Perpetuity shall have the power to designate by a last will and testament his successor, who shall thereupon be entitled to all the rights and privileges of the original Founder in Perpetuity, including the right of designing in turn his successor.

SEC. 11. Any member who shall have donated to the Society \$25,000, or its equivalent, may be elected by the Board of Managers, or the Executive Committee, a Benefactor. Benefactors shall have the rights and privileges of a Founder in Perpetuity.

SEC. 12. Persons who have rendered marked service in the science of zoology or natural history may be elected Honorary Members, but not more than three such Honorary Members shall be elected in any one calendar year.

SEC. 13. A resident member who shall have rendered marked scientific or professional services to the Society in any branch of its work may be elected by the Executive Committee a Life Member, Patron, Associate Founder, or Founder. A resident of New York who shall have rendered marked service in

zoology or natural history may be elected by the Executive Committee a Permanent Fellow.

SEC. 14. Non-residents who communicate valuable information to the Society, or who have rendered marked service in the science of zoology or natural history, may be elected Corresponding Members.

SEC. 15. Benefactors, Founders in Perpetuity, Founders, Associate Founders, Patrons, Life Members, Honorary Members, Permanent Fellows, Fellows, and Corresponding Members shall be exempt from annual dues.

## ARTICLE VII.

### PRIVILEGES OF MEMBERS

SEC. 1. A member's ticket admits the member and his immediate family to the Park on reserve days, and to all lectures and special exhibitions, and may be used by the member's immediate family, and shall be good for the current year.

SEC. 2. Admission tickets to the Park and Aquarium on reserve days are issued to members for distribution, and are good for the current year.

SEC. 3. Each member of the Society is entitled annually to a member's ticket and to ten admission tickets.

SEC. 4. Each member shall also receive one copy of the catalogue or handbook, the report and official publication of the Society, and shall have all the privileges of the Library and Members' Building.

SEC. 5. No member shall be entitled to the privileges enumerated in this Article unless his annual dues shall have been paid.

SEC. 6. The Life Members shall have all the privileges of members and ten additional admission tickets.

SEC. 7. Benefactors, Founders in Perpetuity, Founders, Associate Founders and Patrons shall have all the privileges of Life Members, and shall in addition receive copies of all scientific works published by the Society.

SEC. 8. Any member who shall fail to pay his annual dues within three months after the same shall have become due, and after notice of thirty days, by mail, shall cease to be a member of the Society; subject, however, to reinstatement by the Board of Managers or Executive Committee for good cause shown.

SEC. 9. Any person elected to membership who shall fail to qualify within three months after notice of his election shall be considered to have declined his election; but such term may be extended by the Board of Managers, or Executive Committee.

## ARTICLE VIII.

### FINANCES

SEC. 1. The fiscal year of the corporation shall be the calendar year commencing January 1st and ending December 31st.

SEC. 2. Neither the Society nor any of its Managers or Officers shall contract any debt which, with existing debts, shall exceed in amount the funds then in the Treasury, except to meet expenditures for which the City is liable, and for which the Society will be reimbursed by warrants from the Comptroller's office.

## ARTICLE IX.

## AMENDMENTS

SEC. 1. Amendments to these By-Laws may be proposed, in writing, at any meeting of the Board of Managers, and adopted by unanimous consent of the Managers present, or if such proposed amendment shall fail to receive unanimous consent, the Secretary shall, with the notices of the next meeting, send a copy of it to each Manager and state that it will be brought up for action at such meeting, when it may be passed by a majority vote.











